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February 21, 2019 ATC Project No. 95214880

Massachusetts Department of Environmental Protection Bureau of Waste Site Cleanup Northeast Regional Office 205B Lowell Street Wilmington, Massachusetts 01887

RE: Phase V ROS Status Report

Mobil Station No. 1436

309 Lowell Street

Andover, Massachusetts MassDEP RTN 3-3072

Dear Sir or Madam:

On behalf of Global Companies LLC (Global), ATC Group Services, LLC (ATC) has prepared the following Phase V ROS Status Report for the Disposal Site located at 309 Lowell Street in Andover, Massachusetts (here-in-after referred to as the "Site"). The Disposal Site is being tracked under MassDEP RTN 3-3072. Global assumed responsibility from ExxonMobil Corporation for the environmental response actions being conducted at the Site on September 8, 2010. A Conceptual Site Model (CSM), which includes a timeline of key regulatory dates, is included as Attachment I. A list of abbreviations and acronyms commonly associated with MCP reporting is included in Attachment II. A Site Locus Map is included as Figure 1, an Aerial Overview Plan is included as Figure 2, and a Site Plan, which depicts groundwater flow direction beneath the Site based on groundwater elevation data collected during the December 3, 2018 groundwater sampling event, is included as Figure 3. Graphs depicting the historical concentration trends for select groundwater contaminants and monitoring wells are included as Graphs 1 through 4.

Monitoring Period: August 2018 through January 2019

Selected CRA: Monitored Natural Attenuation

Work Performed: One quarterly groundwater sampling event was conducted on

December 3, 2018.

Groundwater Classification: GW-1, GW-2, and GW-3

1.0 GROUNDWATER MONITORING PROGRAM AND RESULTS

1.1 Groundwater Monitoring Program

One groundwater sampling event was completed during this reporting period. While two groundwater sampling events were planned for this reporting period, the September sampling event was missed due to an administrative oversight. On December 3, 2018, groundwater samples were collected from select monitoring wells and submitted to Contest



Analytical Laboratory (Contest) of East Longmeadow, Massachusetts for laboratory analysis of VPH according to the MassDEP VPH Method. This data has presumptive certainty for precision and accuracy. A review of PARCCS indicates that the data collected during the sampling event is of suitable quality to support the conclusions of this and future reports. Additionally, select samples were submitted for analysis of methane, nitrate, sulfate, dissolved iron, and dissolved manganese. All samples were collected and analyzed according to the MassDEP CAM (finalized on June 25, 2004). A summary of the groundwater monitoring program is presented in Table 1.

1.2 <u>Groundwater Sample Laboratory Analytical Results</u>

The laboratory analytical results and field geochemical data for the groundwater samples collected in December 2018 are summarized in Tables 2 and 3, and are discussed below. A copy of the laboratory analytical report for the groundwater sampling event is provided in Attachment III.

1.2.1 December 2018

On December 3, 2018, groundwater samples were collected from monitoring wells OW-12, OW-13, MW-1, MW-2R, MW-3, MW-4, and OW-ED.

Dissolved-phase VPH target analytes were not detected at concentrations greater than their respective MCP Method 1 GW-1, GW-2, or GW-3 Groundwater Standards in any the groundwater samples collected in December 2018.

1.3 MNA Results

ATC submitted groundwater samples for laboratory analysis of various parameters indicative of primary and secondary "lines of evidence" to determine if MNA is occurring at the Site. The highest concentrations of dissolved-phase VPH target analytes have historically been located in the vicinity of on-site groundwater monitoring wells OW-13 and MW-2R. The concentrations of dissolved-phase VPH target analytes detected in these wells, as well as in OW-12 and MW-4, which are located in the vicinity of OW-13 and downgradient of the source area, have decreased over time, as illustrated in Graphs 1 through 4. A decreasing trend over time supports the primary line of evidence that biodegradation is occurring.

The groundwater samples collected from monitoring wells MW-1, OW-ED, OW-12, and OW-13 in December 2018 were submitted for laboratory analysis of methane, nitrate, sulfate, iron and manganese, and were also monitored for field geochemical parameters (Table 3). The data from the December 2018 sampling event was compiled and compared to established literature values for further evaluation of MNA (Tables 3 and 4).

The MNA data for the December 2018 sampling event indicates that biodegradation processes are continuing to occur beneath the Site, though slowing due to decreased dissolved-phase contaminant concentrations. Anaerobic biodegradation processes appear to be occurring, as evidenced by the higher concentration of sulfate. The MNA program continues to be effective at reducing dissolved-phase contaminant concentrations in groundwater.



2.0 SIGNIFICANT MODIFICATIONS TO THE OPERATION, MAINTENANCE AND/OR MONITORING PROGRAM

There were no significant modifications made to the monitoring program during this reporting period.

3.0 EVALUATION OF THE PERFORMANCE OF THE REMEDIAL ACTION

Groundwater recovery, AS, and SVE systems were operated at the Site between January 1991 through March 2007. The operation of these remediation systems was discontinued in March 2007 due to the successful reduction of dissolved phase VPH concentrations in groundwater beneath the Site. At the time the active remedial system was terminated, VPH concentrations in groundwater beneath the Site had been reduced to levels appropriate for MNA.

Historical groundwater monitoring results indicate that the dissolved-phase VPH concentrations continue to follow decreasing trends and that the dissolved-phase contaminant plume is shrinking in size as a result of natural attenuation processes. Dissolved-phase VPH target analyte concentrations still periodically exceed their respective MCP Method 1 GW-1 Groundwater Standards in on-site groundwater monitoring wells, however the frequency of exceedances and the concentrations observed are continuing to decrease. During the groundwater sampling event completed in December 2018, no concentrations of petroleum analytes were detected above their respective, applicable MCP Method 1 GW-1 Groundwater Standards.

MTBE, historically the primary contaminant of concern with respect to off-property impacts, has not been detected above its applicable MCP Method 1 GW-1 groundwater standard in any monitoring well since 2009, with the exception of OW-ED during the September 2015 sampling event. The MNA program has successfully demonstrated that the downgradient extent of dissolved-phase VPH contamination is shrinking, and thus the Disposal Site boundary is not expanding.

It is the opinion of ATC that performance standards outlined in 310 CMR 40.0893 (2) and as presented in the Phase IV RIP, are being accomplished. ATC is not aware of any conditions or problems that are or may be affecting the performance of the remedial action at the Site.

4.0 FUTURE ACTIVITIES

The following is the schedule for future activities at the Site:

- Conduct quarterly groundwater sampling events at target groundwater monitoring well locations (identified in the Phase V Status Report submitted in February 2011) in order to evaluate the effectiveness of the CRA being performed; and,
- Prepare and submit Phase V ROS Reports on a semi-annual basis (February and August)
 until such time that the Site is eligible for a Permanent Solution.



5.0 PUBLIC INVOLVEMENT

As required by the Public Involvement Plan for the Site, copies of this Phase V ROS Report will be forwarded to the following information repositories:

- Memorial Hall Library Elm Square Andover, Massachusetts 01810 (978) 623-8400
- Department of Community Development and Planning Board of Health Department
 36 Bartlett Street
 Andover, Massachusetts 01810
 (978) 623-8295

Copies of the letters accompanying this ROS Status Report to the above information repositories are included in Attachment IV. Notices of availability of this Phase V ROS Report will be forwarded to the parties listed in Table 5 - Public Involvement Plan mailing list, with the exception of those previously determined to be no longer deliverable. Additionally, prior to sampling events, notifications will be sent to the owners of the adjacent parcels where monitoring wells are located which are part of the ongoing monitoring program, and copies of analytical data collected on those properties have been, and will continue to be, forwarded to the owners in accordance with 310 CMR 40.1403(10).

Should you have any questions regarding the enclosed information, please feel free to contact either Jason Frigon of Global Companies LLC or the undersigned at (508) 926-1315.

Sincerely, ATC GROUP SERVICES, LLC

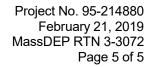
Aaron Kaczowka

Oaron Kaczowka

Project Manager

Daniel W. Felten, P.E., LSP, LEP

Senior VP





FIGURES:

Figure 1 Site Locus

Figure 2 Aerial Overview Plan

Figure 3 Site Plan with Groundwater Contours (12/3/2018)

GRAPHS:

Graph 1 VPH Concentration vs. Depth to Groundwater – MW-2
Graph 2 VPH Concentration vs. Depth to Groundwater – MW-4
Graph 3 VPH Concentration vs. Depth to Groundwater – OW-12
Graph 4 VPH Concentration vs. Depth to Groundwater – OW-13

TABLES:

Table 1 Groundwater Monitoring Program

Table 2 Concentrations of Volatile Petroleum Hydrocarbons (VPH) Detected in

Groundwater

Table 3 Geochemical and Monitored Natural Attenuation Data

Table 4 Lines of Evidence for MNA – December 2018 Groundwater Sampling

Table 5 Public Involvement Plan Mailing List

ATTACHMENTS:

Attachment I Conceptual Site Model
Attachment II Abbreviations and Acronyms
Attachment III Laboratory Analytical Results

Attachment IV Copies of Public Notification Documents

REMEDY OPERATION STATUS REPORT 309 Lowell Street Andover, Massachusetts

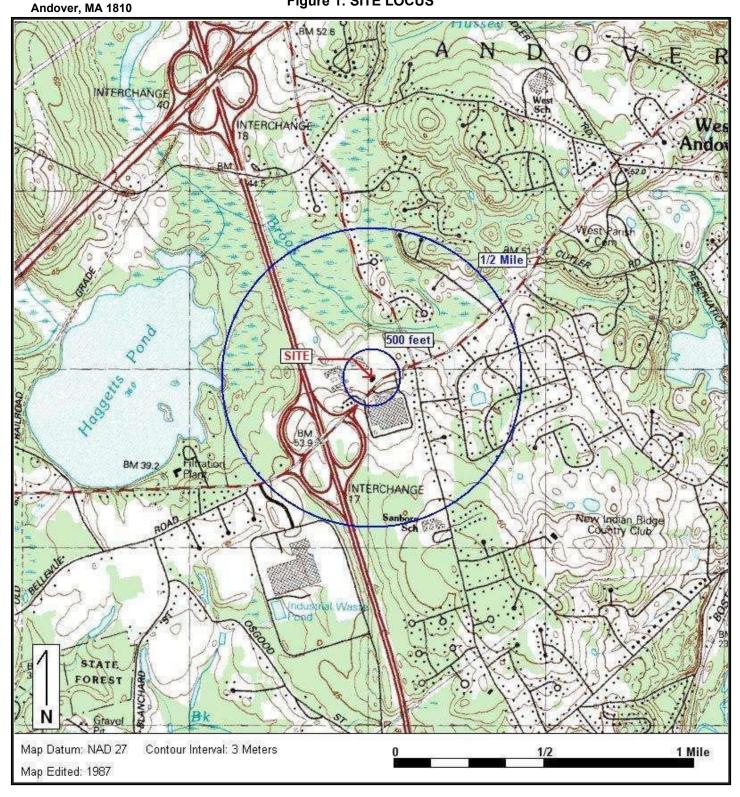
FIGURES



ATC Group Services, LLC 500 West Cummings Park, Suite 3750 Woburn, MA 01801 (781) 932-9400 TEL (781) 932-6211 FAX

Figure 1: SITE LOCUS





Base Map: U.S. Geological Survey; Quadrangle Location: Lawrence, MA

Lat/Lon: 42° 38' 57" NORTH, 71° 10' 58" WEST - UTM Coordinates: 19 321071 EAST / 4724170 NORTH

Generated By: Rich Walas



500 West Cummings Park, Suite 3750 Woburn, MA 01801 (781) 932-9400 PHONE (781) 932-6211 FAX

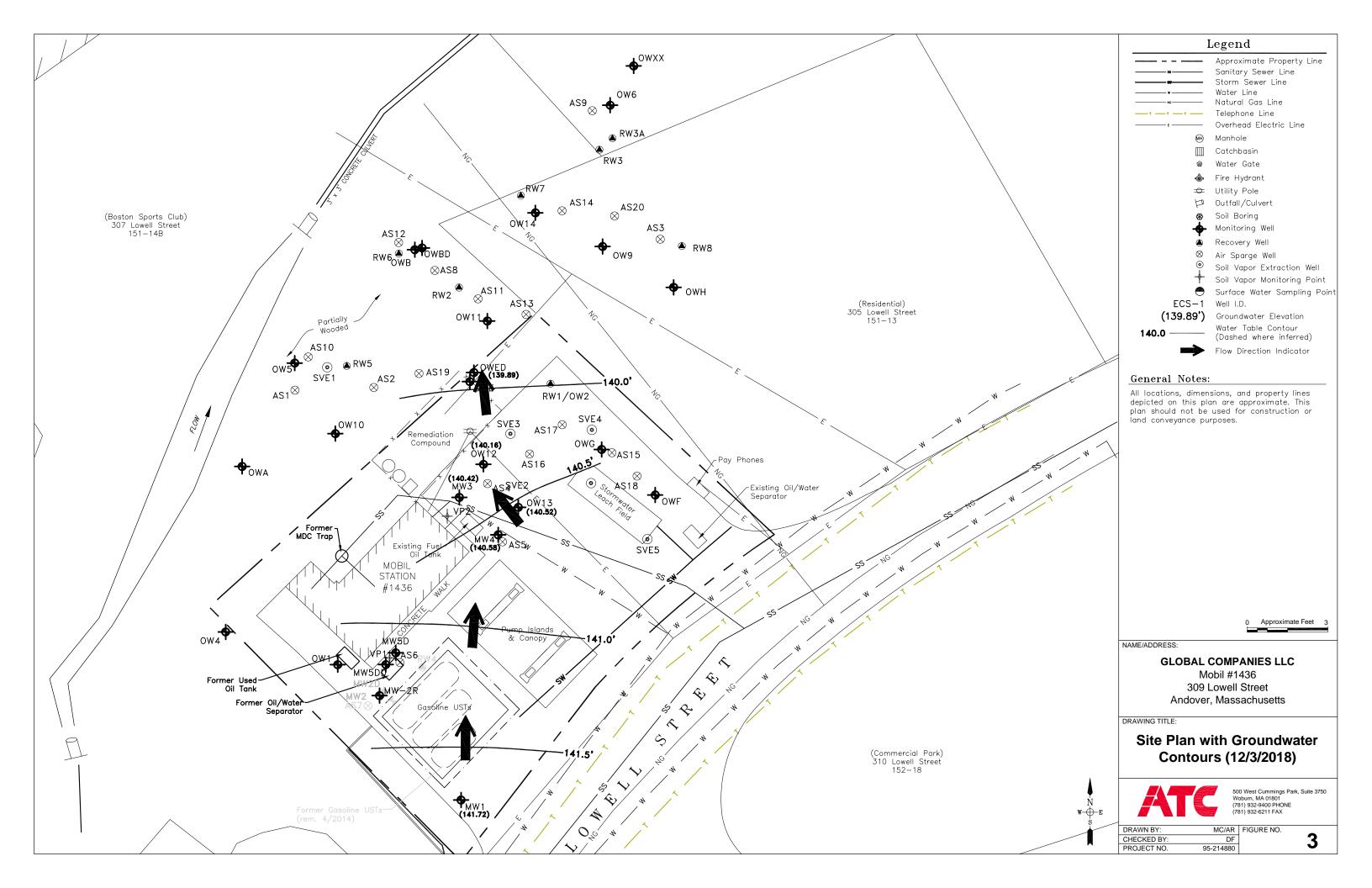
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Mobil # 1436 309 Lowell Street Andover, Massachusetts

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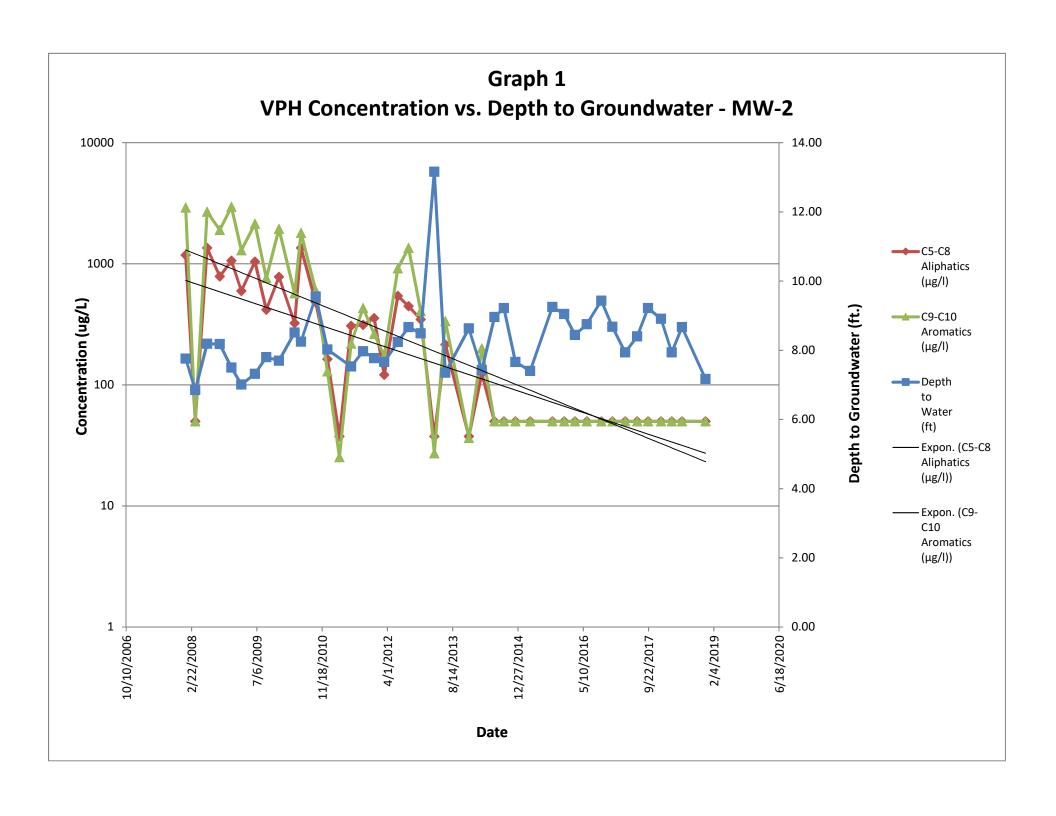
AERIAL OVERVIEW PLAN

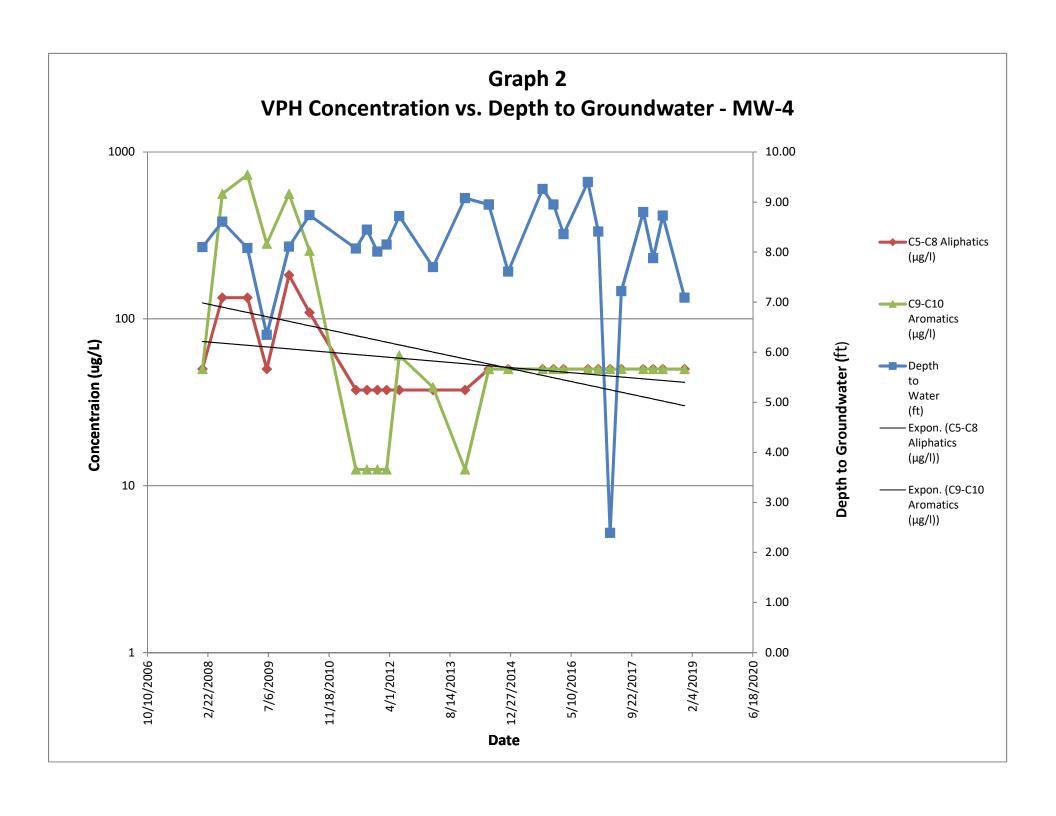
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REMEDY OPERATION STATUS REPORT 309 Lowell Street Andover, Massachusetts

GRAPHS





Graph 3 VPH Concentration vs. Depth to Groundwater - OW-12 10000 12.00 10.00 1000 C5-C8 Aliphatics $(\mu g/I)$ 8.00 Depth to Groundwater (ft) **─** C9-C10 Aromatics Concentration (ug/L) (μg/l) 100 6.00 **Depth** to Water (ft) Expon. (C5-C8 4.00 Aliphatics (μg/l)) 10 Expon. (C9-C10 Aromatics 2.00 (μg/l)) 0.00 6/18/2020 🏻 10/10/2006 7/6/2009 2/4/2019 4/1/2012 2/22/2008 11/18/2010 8/14/2013 12/27/2014 5/10/2016 9/22/2017 Date

Graph 4 VPH Concentration vs. Depth to Groundwater - OW-13 10000 12.00 10.00 C5-C8 Aliphatics $(\mu g/I)$ 1000 8.00 C9-C10 Depth to Groundwater (ft) Aromatics Concentration (ug/L) $(\mu g/I)$ **Depth** 100 6.00 to Water (ft) Expon. (C5-C8 Aliphatics 4.00 (μg/l)) Expon. (C9-C10 10 Aromatics (µg/l)) 2.00 0.00 6/18/2020 + 11/18/2010 -7/6/2009 2/4/2019 10/10/2006 4/1/2012 9/22/2017 2/22/2008 8/14/2013 5/10/2016 Date

REMEDY OPERATION STATUS REPORT 309 Lowell Street Andover, Massachusetts

TABLES

95-214880 Global Companies, LLC Mobil Station No. 1436 309 Lowell Street Andover, MA	1	ole 1 onitoring Program
Sampling Date:	12/3/2018 Quarterly Sampling Event	
Sample Method:	Low flow sampling	
Laboratory Analysis:	VPH, methane, nitrate, sulfate, total and dissolved iron and manganese.	
Field Measurements:	Temperature, specific conductivity, Dissolved Oxygen (DO), pH, Oxidation Reduction Potential (ORP), and turbidity	
Laboratory:	Contest Analytical Laboratory of East Longmeadow, MA (Contest)	
Sampling points planned:	7 wells	
Number of wells gauged:	7 wells	
Number of wells sampled:	7 wells	
Completeness:	100%	
Wells sampled:	OW-12, OW-13, MW-1, MW-2R, MW-3, MW-4 and OW-ED	
Comments:	None	

Well No. (GW Class) Screen Interval (ft.)	Sampling Date	Top of Casing Elevation	Depth to Water (ft)	Depth to LNAPL (ft)	Ground Water Elevation (ft)	Benzene (μg/l)	Toluene (μg/l)	Ethyl- benzene (μg/l)	Total Xylenes (µg/l)	MTBE (μg/l)	Naph- thalene (µg/l)	C ₅ -C ₈ Aliphatics (µg/l)	C ₉ -C ₁₂ Aliphatics (µg/l)	C ₉ -C ₁₀ Aromatics (µg/l)
miervai (ji.)		(11)		W-1	(11)	5	1,000	700	10,000	70	140	300	700	200
MCP Method	I 1 Standards			W-2		2,000	50,000	20,000	3,000	50,000	700	3,000	5,000	4,000
			G	W-3		10,000	40,000	5,000	5,000	50,000	20,000	50,000	50,000	50,000
OW-1	7/30/1998	148.35	8.51	ND	139.84	<1.0	<1.0	<1.0	<3	19	NA	NA	NA	NA
(GW-1,2,3)	9/11/1998	148.35	9.41	ND	138.94	<1.0	<1.0	<1.0	<3	29	NA	NA	NA	NA
5-15'	10/26/1998	148.35	8.84	ND	139.51	<1.0	<1.0	<1.0	<3	40	NA	NA	NA	NA
	11/13/1998	148.35	9.02	ND	139.33	<1.0	<1.0	<1.0	<3	35	NA	NA	NA	NA
	12/17/1998 1/6/1999	148.35 148.35	9.15 8.69	ND ND	139.20 139.66	<1.0 <1.0	<1.0 <1.0	<1.0	⊲	37 31	NA NA	NA NA	NA NA	NA NA
	2/9/1999	148.35	7.80	ND	140.55	<1.0	<1.0	<1.0	3	8	NA	NA	NA NA	NA
	3/29/1999	148.35	7.38	ND	140.97	<1.0	<1.0	<1.0	ح ح	9	NA	NA	NA	NA
	6/24/1999	148.35	8.75	ND	139.60	<1.0	<5	<5	<15	5.5	<5	<100	<100	<100
	11/20/2001	148.35	8.10	ND	140.25	< 5.0	< 5.0	< 5.0	<10	247	< 5.0	<50	<50	<50
	2/26/2001	148.35	8.30	ND	140.05	<1.0	< 5.0	< 5.0	<15	50.8	<5	<100	<100	<100
	7/16/2001	148.35	8.73	ND	139.62	< 5.0	< 5.0	< 5.0	<10	55.8	<5	<50	<50	<50
	1/22/2002	148.35	9.13	ND	139.22	< 5.0	<5.0	<5.0	<10	30.4	<5.0	<50	<50	<50
	5/17/2002	148.35	8.10	ND	140.25	<5.0	<5.0	<5.0	<10	20.4	<5.0	<50	<50	<50
	10/2/2002 11/13/2003	147.98 147.98	9.92	ND ND	138.06 139.17	<2.0	<2.0	<2.0	<4.0	5.1	<3.0	<50 <50	<50	<50
	11/13/2003	147.98	8.81	ND	137.17	<2.0	<2.0	<2.0	<4.0	5.1	<3.0	\J0	<50	<50
OW-3	7/30/1998	149.86	9.21	ND	140.65	<1.0	<1.0	<1.0	<3	5	NA	NA	NA	NA
(GW-1,3)	9/11/1998	149.86	9.92	ND	139.94	<1.0	<1.0	<1.0	ح ح	3	NA	NA	NA	NA
5-15'	10/26/1998	149.86	9.68	ND	140.18	<1.0	<1.0	<1.0	<3	<1.0	NA	NA	NA	NA
	11/13/1998	149.86	9.91	ND	139.95	<1.0	<1.0	<1.0	<3	<1.0	NA	NA	NA	NA
	12/17/1998	149.86	9.71	ND	140.15	<1.0	<1.0	<1.0	<3	<1.0	NA	NA	NA	NA
	1/6/1999	149.86	9.60	ND	140.26	<1.0	<1.0	<1.0	<3	<1.0	NA	NA	NA	NA
	2/9/1999	149.86	8.15	ND	141.71	<1.0	<1.0	<1.0	<3	11	NA	NA	NA	NA
	3/29/1999 6/24/1999	149.86 149.86	7.54	ND	142.32	<1.0	<1.0	<1.0	<3	37	NA 5.0	NA	NA 100	NA 100
	11/20/2000	149.86	9.12 8.64	ND ND	140.74 141.22	<1.0 <5.0	<5.0 <5.0	<5.0 <5.0	<15 <10	<5.0 489	<5.0 <5.0	<100 <50	<100 <na< td=""><td><100 <50</td></na<>	<100 <50
	2/26/2001	149.86	9.20	ND	140.66	<1.0	<5.0	<5.0	<15	<5.0	<5.0	<100	<100	<100
	7/16/2001	149.86	9.00	ND	140.86	<5.0	<5.0	<5.0	<10	<5.0	<5.0	<50	<50	<50
	1/22/2002	149.86	9.82	ND	140.04	<5.0	< 5.0	< 5.0	<10	< 5.0	< 5.0	<50	<50	<50
	5/18/2004	149.55	9.41	ND	140.14	<1.00	<3.0	<1.0	< 6.0	<3.0	< 5.0	<100	<100	<100
	11/17/2004	149.55	NG	NG	NA	<1.00	<3.0	<1.0	< 6.0	<3.0	< 5.0	<100	<100	<100
	6/20/2005	149.55	9.31	ND	140.24	<1.00	<3.0	<1.0	< 6.0	<3.0	< 5.0	<100	<100	<100
	12/16/2005	149.55	8.86	ND	140.69	<1.00	<3.00	<1.00	<4.00	<3.00	< 5.00	<100	<100	<100
	6/27/2006	149.55	8.11	ND	141.44	<1.00	<3.00	<1.00	<4.00	<3.00	< 5.00	<100	<100	<100
	12/14/2006	149.55	9.36	ND	140.19	<1.00	<3.00	<1.00	<6.00	<3.00	<5.00	<100	<100	<100
	7/11/2007	149.55 149.55	9.80 9.15	ND ND	139.75 140.4	<1.00	<3.00	<1.00	<6.00 <6.00	<3.00	<5.00 <5.00	<100 <100	<100	<100
	1/8/2008 6/20/2008	149.55	9.65	ND	139.9	<1.00	<3.00	<1.00	<4.00	<3.00	<5.00	<100	<100 <100	<100 <100
	1/14/2009	149.55	9.04	ND	140.51	<1.00	<3.00	<1.00	<6.00	<3.00	<5.00	<100	<100	<100
	6/22/2009	149.55	8.85	ND	140.7	<1.00	<3.00	<1.00	<6.00	<3.00	< 5.00	<100	<100	<100
	12/23/2009	149.55	8.86	ND	140.69	<1.00	<3.00	<1.00	< 6.00	< 3.00	< 5.00	<100	<100	<100
	6/10/2010	149.55	9.81	ND	139.74	<1.00	< 3.00	<1.00	< 6.00	<3.00	< 5.00	<100	<100	<100
OW-4	7/30/1998	147.61	7.92	ND	139.69	<1.0	<1.0	<1.0	<3	3	NA	NA	NA	NA
(GW-1,3)	9/11/1998	147.61	8.89	ND	138.72	<1.0	<1.0	<1.0	<3	3	NA	NA	NA	NA
2-15'	10/26/1998	147.61	11.98	ND ND	135.63	<1.0	<1.0 <1.0	<1.0	<3	99	NA	NA	NA	NA
	11/13/1998 12/17/1998	147.61 147.61	8.35	ND	139.26								NI A	NT A
				ND	130.00			<1.0	3	3	NA NA	NA NA	NA NA	NA NA
			8.52 7.94	ND ND	139.09 139.67	<1.0	<1.0	<1.0	<3	4	NA	NA	NA	NA
	1/6/1999 2/9/1999	147.61 147.61	7.94 7.35	ND ND ND	139.09 139.67 140.26									
	1/6/1999 2/9/1999 3/29/1999	147.61	7.94	ND	139.67 140.26 140.46	<1.0 <1.0	<1.0 <1.0 <1.0 <1.0	<1.0 <1.0	3 3	4 5	NA NA	NA NA	NA NA	NA NA
	1/6/1999 2/9/1999 3/29/1999 6/24/1999	147.61 147.61 147.61 147.61	7.94 7.35 7.15 8.20	ND ND ND ND	139.67 140.26 140.46 139.41	<1.0 <1.0 <1.0 <1.0 <1.0	<1.0 <1.0 <1.0 <1.0 <5.0	<1.0 <1.0 <1.0 <1.0 <5.0	3 3 3 4 45	4 5 5 <1.0 82.2	NA NA NA NA <5	NA NA NA NA <100	NA NA NA NA <100	NA NA NA NA <100
	1/6/1999 2/9/1999 3/29/1999 6/24/1999 11/4/1999	147.61 147.61 147.61 147.61	7.94 7.35 7.15 8.20 7.84	ND ND ND ND ND	139.67 140.26 140.46 139.41 139.77	<1.0 <1.0 <1.0 <1.0 <1.0 <1.0	<1.0 <1.0 <1.0 <1.0 <5.0 <5.0	<1.0 <1.0 <1.0 <1.0 <5.0 <5.0	3 3 3 45 45	4 5 5 <1.0 82.2 6.2	NA NA NA NA <5 <5.0	NA NA NA NA <100 <100	NA NA NA NA <100 <100	NA NA NA NA <100 <100
	1/6/1999 2/9/1999 3/29/1999 6/24/1999 11/4/1999 11/20/2000	147.61 147.61 147.61 147.61 147.61	7.94 7.35 7.15 8.20 7.84 7.65	ND ND ND ND ND ND ND	139.67 140.26 140.46 139.41 139.77 139.96	<1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <5.0	<1.0 <1.0 <1.0 <1.0 <5.0 <5.0 <5.0	<1.0 <1.0 <1.0 <1.0 <5.0 <5.0 <5.0	3 3 3 45 <15 <10	4 5 5 <1.0 82.2 6.2 50.7	NA NA NA NA <5 <5.0	NA NA NA NA <100 <100 <50	NA NA NA NA <100 <100 <50	NA NA NA NA <100 <100 <50
	1/6/1999 2/9/1999 3/29/1999 6/24/1999 11/4/1999 11/20/2000 2/26/2001	147.61 147.61 147.61 147.61 147.61 147.61	7.94 7.35 7.15 8.20 7.84 7.65 7.62	ND	139.67 140.26 140.46 139.41 139.77 139.96 139.99	<1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <5.0 <1.0	<1.0 <1.0 <1.0 <1.0 <5.0 <5.0 <5.0 <5.0	<1.0 <1.0 <1.0 <1.0 <5.0 <5.0 <5.0 <5.0	3 3 3 45 45 40 45	4 5 5 <1.0 82.2 6.2 50.7 77.7	NA NA NA NA <5 <5.0 <5.0	NA NA NA NA <100 <100 <50 <100	NA NA NA NA <100 <100 <50 <100	NA NA NA NA <100 <100 <50 <100
	1/6/1999 2/9/1999 3/29/1999 6/24/1999 11/4/1999 11/20/2000 2/26/2001 7/16/2001	147.61 147.61 147.61 147.61 147.61 147.61 147.61	7.94 7.35 7.15 8.20 7.84 7.65 7.62 8.10	ND	139.67 140.26 140.46 139.41 139.77 139.96 139.99 139.51	<1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <5.0 <5.0 <5.0	<1.0 <1.0 <1.0 <1.0 <5.0 <5.0 <5.0 <5.0 <5.0 <5.0	<1.0 <1.0 <1.0 <1.0 <5.0 <5.0 <5.0 <5.0 <5.0	3 3 3 5 5 5 5 5 5 5	4 5 5 <1.0 82.2 6.2 50.7 77.7 56	NA NA NA S5 S5.0 S5.0 S5 S5	NA NA NA NA <100 <100 <100 <50 <100 <50	NA NA NA NA <-100 <-100 <-50 <-100 <-50 <-50	NA NA NA NA <
	1/6/1999 2/9/1999 3/29/1999 6/24/1999 11/4/1999 11/20/2000 2/26/2001 7/16/2001 1/22/2002	147.61 147.61 147.61 147.61 147.61 147.61 147.61 147.61 147.61	7.94 7.35 7.15 8.20 7.84 7.65 7.62 8.10 8.37	ND N	139.67 140.26 140.46 139.41 139.77 139.96 139.99 139.51 139.24	<1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0	<1.0 <1.0 <1.0 <1.0 <5.0 <5.0 <5.0 <5.0 <5.0 <5.0 <5.0	<1.0 <1.0 <1.0 <1.0 <5.0 <5.0 <5.0 <5.0 <5.0 <5.0 <5.0	3 3 3 3 5 5 5 5 5 5	4 5 5 <1.0 82.2 6.2 50.7 77.7 56 <5.0	NA NA NA NA S5 S5.0 S5.0 S5 S5 S5.0	NA NA NA NA	NA NA NA NA <100 <100 <50 <100 <50 <50 <50 <50	NA NA NA NA NA <-100 <-100 <-50 <-100 <-50 <-50 <-50
	1/6/1999 2/9/1999 3/29/1999 6/24/1999 11/4/1999 11/20/2000 2/26/2001 7/16/2001	147.61 147.61 147.61 147.61 147.61 147.61 147.61 147.61 147.61 147.61	7.94 7.35 7.15 8.20 7.84 7.65 7.62 8.10	ND	139.67 140.26 140.46 139.41 139.77 139.96 139.99 139.51 139.24 140.09	<1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <5.0 <5.0 <5.0	<1.0 <1.0 <1.0 <1.0 <5.0 <5.0 <5.0 <5.0 <5.0 <5.0	<1.0 <1.0 <1.0 <1.0 <5.0 <5.0 <5.0 <5.0 <5.0	3 3 3 5 5 5 5 5 5 5	4 5 5 <1.0 82.2 6.2 50.7 77.7 56	NA NA NA S5 S5.0 S5.0 S5 S5	NA NA NA NA <100 <100 <100 <50 <100 <50	NA NA NA NA <-100 <-100 <-50 <-100 <-50 <-50	NA NA NA NA <
	1/6/1999 2/9/1999 3/29/1999 6/24/1999 11/20/2000 2/26/2001 7/16/2001 1/22/2002 5/7/2002	147.61 147.61 147.61 147.61 147.61 147.61 147.61 147.61 147.61	7.94 7.35 7.15 8.20 7.84 7.65 7.62 8.10 8.37 7.52	ND N	139.67 140.26 140.46 139.41 139.77 139.96 139.99 139.51 139.24	<1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0	<1.0 <1.0 <1.0 <1.0 <5.0 <5.0 <5.0 <5.0 <5.0 <5.0 <5.0 <5	<1.0 <1.0 <1.0 <1.0 <5.0 <5.0 <5.0 <5.0 <5.0 <5.0 <5.0 <5	<3 <3 <3 <15 <15 <10 <10 <10 <10	4 5 5 <1.0 82.2 6.2 50.7 77.7 56 <5.0	NA NA NA NA S S S S S S S S S S S S S S	NA NA NA NA	NA NA NA NA	NA NA NA NA NA <100 <100 <50 <100 <50 <50 <50 <50 <50 <50
	1/6/1999 2/9/1999 3/29/1999 6/24/1999 11/4/1999 11/20/2000 2/26/2001 7/16/2001 1/22/2002 5/7/2002	147.61 147.61 147.61 147.61 147.61 147.61 147.61 147.61 147.61 147.61	7.94 7.35 7.15 8.20 7.84 7.65 7.62 8.10 8.37 7.52 9.42	ND N	139.67 140.26 140.46 139.41 139.77 139.96 139.99 139.51 139.24 140.09	<1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <5.0 <5.0 <5.0 <5.0 <5.0 <2.0	<1.0 <1.0 <1.0 <1.0 <1.0 <5.0 <5.0 <5.0 <5.0 <5.0 <5.0 <5.0 <5	<1.0 <1.0 <1.0 <1.0 <1.0 <5.0 <5.0 <5.0 <5.0 <5.0 <5.0 <5.0 <5	<3 <3 <15 <15 <10 <10 <10 <10 <10 <10 <10 <10 <10 <10 <10 <10 <10 <10 <10 <10 <10 <10 <10 <10 <10 <10 <10 <10 <10 <10 <10 <10 <10 <10 <10 <10 <10 <10 <10 <10 <10 <10 <10 <10 <10 <10 <10 <10 <10 <10 <10 <10 <10 <10 <10 <10 <10 <10 <10 <10 <10 <10 <10 <10 <10 <10 <10 <10 <10 <10 <10 <10 <10 <10 <10 <10 <10 <10 <10 <10 <10 <10 <10 <10 <10 <10 <10 <10 <10 <10 <10 <10 <10 <10 <10 <10 <10 <10 <10 <10 <10 <10 <10 <10 <10 <10 <10 <10 <10 <10 <10 <10 <10 <10 <10 <10 <10 <10 <10 <10 <10 <10 <10 <10 <10 <10 <10 <10 <10 <10 <10 <10 <10 <10 <10 <10 <10 <10 <10 <10 <10 <10 <10 <10 <10 <10 <10 <10 <10 <10 <10 <10 <10 <10 <10 <10 <10 <10 <10 <10 <10 <10 <10 <10 <10 <10 <10 <10 <10 <10 <10 <10 <10 <10 <10 <10 <10 <10 <10 <10 <10 <10 <10 <10 <10 <10 <10 <10 <10 <10 <10 <10 <10 <10 <10 <10 <10 <10 <10 <10 <10 <10 <10 <10 <10 <10 <10 <10 <10 <10 <10 <10 <10 <10 <10 <10 <10 <10 <10 <10 <10 <10 <10 <10 <10 <10 <10 <10 <10 <10 <10 <10 <10 <10 <10 <10 <10 <10 <10 <10 <10 <10 <10 <10 <10 <10 <10 <10 <10 <10 <10 <10 <10 <10 <10 <10	4 5 5 <1.0 82.2 6.2 50.7 77.7 56 <5.0 199 4.2	NA NA NA NA S5 S5.0 S5.0 S5.0 S5.0 S5.0 S5.0 S5.0 S	NA NA NA NA NA <100 <100 <100 <50 <50 <50 <50 <50 <50	NA NA NA NA NA	NA NA NA NA VA NA
	1/6/1999 2/9/1999 3/29/1999 6/24/1999 11/4/1999 11/20/2000 2/26/2001 7/16/2001 1/22/2002 5/7/2002 5/10/2003 5/18/2004	147.61 147.61 147.61 147.61 147.61 147.61 147.61 147.61 147.61 147.61 147.61 147.61 147.61 147.61	7.94 7.35 7.15 8.20 7.84 7.65 7.62 8.10 8.37 7.52 9.42 7.18	ND N	139.67 140.26 140.46 139.41 139.77 139.96 139.99 139.51 139.24 140.09 137.78 140.02	<1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <5.0 <5.0 <5.0 <5.0 <2.0 <2.0 <1.0 <2.0 <1.0	<1.0 <1.0 <1.0 <1.0 <1.0 <5.0 <5.0 <5.0 <5.0 <5.0 <5.0 <2.0 <1.0 <2.0 <3.0	<1.0 <1.0 <1.0 <1.0 <1.0 <5.0 <5.0 <5.0 <5.0 <5.0 <5.0 <5.0 <5.0 <5.0 <2.0 <1.0 <1.0 <1.0	3 3 3 5 5 5 5 5 5 5	4 5 5 5 1.0 82.2 6.2 50.7 77.7 56 <5.0 199 4.2 799 78.4 250	NA NA NA NA S S S S S S S S S S S S S S	NA NA NA NA NA	NA NA NA NA NA	NA NA NA NA NA <100 <100 <50 <100 <50 <50 <50 <50 <ns ns<="" td=""></ns>
	1/6/1999 2/9/1999 3/29/1999 6/24/1999 11/4/1999 11/4/1999 11/20/2000 7/16/2001 1/22/2002 5/10/2003 11/12/2003 11/12/2004 11/17/2004	147.61 147.61 147.61 147.61 147.61 147.61 147.61 147.61 147.61 147.61 147.61 147.61 147.61 147.61 147.61	7.94 7.35 7.15 8.20 7.84 7.65 7.62 8.10 8.37 7.52 9.42 7.18 7.92 7.82	ND N	139.67 140.26 140.46 139.41 139.77 139.96 139.99 139.51 139.24 140.09 137.78 140.02 139.28 139.28 NA	<1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <5.0 <1.0 <5.0 <5.0 <2.0 <1.0 <2.0 <1.0 <2.0 <1.0 <2.0 <1.0 <2.0 <1.0 <2.0 <1.0 <2.0 <1.0 <2.0 <1.0 <2.0 <1.00 <1.00	<1.0 <1.0 <1.0 <1.0 <1.0 <5.0 <5.0 <5.0 <5.0 <5.0 <5.0 <5.0 <5.0 <5.0 <5.0 <5.0 <5.0 <5.0 <5.0 <5.0 <5.0 <5.0 <5.0 <5.0 <5.0 <5.0 <5.0 <5.0 <5.0 <5.0 <5.0 <5.0 <5.0 <5.0 <5.0 <5.0 <5.0 <5.0 <5.0 <5.0 <5.0 <5.0 <5.0 <5.0 <5.0 <5.0 <5.0 <5.0 <5.0 <5.0 <5.0 <5.0 <5.0 <5.0 <5.0 <5.0 <5.0 <5.0 <5.0 <6.0 <6.0 <6.0 <6.0 <6.0 <6.0 <6.0 <6.0 <6.0 <6.0 <6.0 <6.0 <6.0 <6.0 <6.0 <6.0 <6.0 <6.0 <6.0 <6.0 <6.0 <6.0 <6.0 <6.0 <6.0 <6.0 <6.0 <6.0 <6.0 <6.0 <6.0 <6.0 <6.0 <6.0 <6.0 <6.0 <6.0 <6.0 <6.0 <6.0 <6.0 <6.0 <6.0 <6.0 <6.0 <6.0 <6.0 <6.0 <6.0 <6.0 <6.0 <6.0 <6.0 <6.0 <6.0 <6.0 <6.0 <6.0 <6.0 <6.0 <6.0 <6.0 <6.0 <6.0 <6.0 <6.0 <6.0 <6.0 <6.0 <6.0 <6.0 <6.0 <6.0 <6.0 <6.0 <6.0 <6.0 <6.0 <6.0 <6.0 <6.0 <6.0 <6.0 <6.0 <6.0 <6.0 <6.0 <6.0 <6.0 <6.0 <6.0 <6.0 <6.0 <6.0 <6.0 <6.0 <6.0 <6.0 <6.0 <6.0 <6.0 <6.0 <6.0 <6.0 <6.0 <6.0 <6.0 <6.0 <6.0 <6.0 <6.0 <6.	<1.0 <1.0 <1.0 <1.0 <1.0 <5.0 <5.0 <5.0 <5.0 <5.0 <5.0 <2.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0	3 3 3 5 5 5 5 5 5 5	4 5 5 5 41.0 82.2 6.2 50.7 77.7 56 <5.0 199 4.2 799 4.2 78.4 250	NA NA NA NA S S S S S S S S S S S S S S	NA NA NA NA NA	NA NA NA NA NA NA NA <100 <100 <50 <50 <50 <50 <50 <50 <100 <50 <50 <100 <50 <50 <50 <50 <50 <50 <50 <50 <50 <	NA NA NA NA NA <100 <100 <50 <50 <50 <50 <50 <50 <100 <50 <50 <100 <10
	1/6/1999 2/9/1999 3/29/1999 6/24/1999 11/4/1999 11/20/2000 2/26/2001 7/16/2001 1/22/2002 5/7/2002 10/2/2003 11/12/2003 5/18/2004 11/17/2004 6/20/2005	147.61 147.61 147.61 147.61 147.61 147.61 147.61 147.61 147.61 147.61 147.61 147.61 147.61 147.20	7.94 7.35 7.15 8.20 7.84 7.65 7.62 8.10 8.37 7.52 9.42 7.18 7.92 NG 8.05	ND N	139.67 140.26 140.46 139.41 139.77 139.96 139.99 139.51 139.24 140.09 137.78 140.02 139.28 139.28 NA	<1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <5.0 <5.0 <5.0 <5.0 <2.0 <1.0 <2.0 <1.0 <2.0 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00	<1.0 <1.0 <1.0 <1.0 <5.0 <5.0 <5.0 <5.0 <5.0 <5.0 <5.0 <5.0 <5.0 <5.0 <5.0 <5.0 <5.0 <5.0 <5.0 <3.0 <3.0 <3.0 <3.0 <3.0 <3.0 <3.0	<1.0 <1.0 <1.0 <1.0 <5.0 <5.0 <5.0 <5.0 <5.0 <5.0 <5.0 <5.0 <5.0 <5.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0	3 3 3 5 5 5 5 5 5 5	4 5 5 5 (1.0 82.2 6.2 50.7 77.7 56 (5.0 199 4.2 799 78.4 250 (3.0 321	NA NA NA NA S S S S S S S S S S S S S S	NA NA NA NA	NA NA NA NA <100 <100 <50 <100 <50 <50 <50 <50 <50 <100 <50 <50 <50 <100 <10	NA NA NA NA NA
	1/6/1999 3/29/1999 3/29/1999 6/24/1999 11/4/1999 11/20/2000 2/26/2001 1/22/2002 5/7/2002 5/10/2003 11/12/2003 5/18/2004 11/17/2004 6/20/2005 12/16/2005	147.61 147.61 147.61 147.61 147.61 147.61 147.61 147.61 147.61 147.61 147.61 147.61 147.61 147.61 147.61 147.61 147.61 147.61	7.94 7.35 7.15 8.20 7.84 7.65 7.62 8.10 8.37 7.52 9.42 7.18 7.92 7.82 NG	ND N	139.67 140.26 140.46 139.41 139.77 139.96 139.91 139.51 139.24 140.09 137.78 140.02 139.28 139.38 NA 139.15	<pre><1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0</pre>	 <1.0 <1.0 <1.0 <1.0 <5.0 <li< td=""><td> <1.0 <1.0 <1.0 <1.0 <2.0 <5.0 <5.0 <5.0 <5.0 <5.0 <1.0 <1.0 <1.0 <1.0 <1.00 </td><td> 3 3 3 3 5 5 5 5 5 5</td><td>4 5 5 5 5 6.2 6.2 50.7 77.7 56 <5.0 199 4.2 799 78.4 250 <3.0 321 8.23</td><td>NA NA NA NA S S S S S S S S S S S S S S</td><td>NA NA NA NA NA</td><td>NA NA NA NA NA <100 <100 <50 <100 <50 <50 <50 <50 <50 <50 <100 <50 <100 <10</td><td>NA NA NA NA <100 <100 <100 <50 <50 <50 <50 <50 <100 <10</td></li<>	 <1.0 <1.0 <1.0 <1.0 <2.0 <5.0 <5.0 <5.0 <5.0 <5.0 <1.0 <1.0 <1.0 <1.0 <1.00 	3 3 3 3 5 5 5 5 5 5	4 5 5 5 5 6.2 6.2 50.7 77.7 56 <5.0 199 4.2 799 78.4 250 <3.0 321 8.23	NA NA NA NA S S S S S S S S S S S S S S	NA NA NA NA NA	NA NA NA NA NA <100 <100 <50 <100 <50 <50 <50 <50 <50 <50 <100 <50 <100 <10	NA NA NA NA <100 <100 <100 <50 <50 <50 <50 <50 <100 <10
	1/6/1999 2/9/1999 3/29/1999 6/24/1999 11/4/1999 11/20/2000 226/2001 7/16/2001 1/22/2002 5/7/2002 10/2/2002 5/10/2003 11/12/2003 5/10/2003 11/12/2003 5/10/2003 11/12/2003 5/10/2004 5/10/2005 6/20/2005 12/16/2005	147.61 147.61 147.61 147.61 147.61 147.61 147.61 147.61 147.61 147.61 147.61 147.61 147.61 147.20 147.20 147.20	7.94 7.35 7.15 8.20 7.84 7.65 7.62 8.10 8.37 7.52 9.42 7.18 7.92 7.82 NG 8.05 7.41	ND N	139.67 140.26 140.46 139.41 139.77 139.99 139.51 139.24 140.02 137.78 140.02 139.28 NA 139.15 139.15 139.38	<.1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0	<1.0 <1.0 <1.0 <1.0 <1.0 <5.0 <5.0 <5.0 <5.0 <5.0 <5.0 <5.0 <5.0 <5.0 <5.0 <5.0 <5.0 <5.0 <5.0 <5.0 <5.0 <5.0 <5.0 <5.0 <5.0 <5.0 <5.0 <5.0 <5.0 <5.0 <5.0 <5.0 <5.0 <5.0 <5.0 <5.0 <5.0 <5.0 <5.0 <5.0 <5.0 <5.0 <5.0 <5.0 <5.0 <5.0 <5.0 <5.0 <5.0 <5.0 <5.0 <5.0 <5.0 <5.0 <5.0 <5.0 <5.0 <5.0 <5.0 <6.0 <6.0 <6.0 <6.0 <6.0 <6.0 <6.0 <6.0 <6.0 <6.0 <6.0 <6.0 <6.0 <6.0 <6.0 <6.0 <6.0 <6.0 <6.0 <6.0 <6.0 <6.0 <6.0 <6.0 <6.0 <6.0 <6.0 <6.0 <6.0 <6.0 <6.0 <6.0 <6.0 <6.0 <6.0 <6.0 <6.0 <6.0 <6.0 <6.0 <6.0 <6.0 <6.0 <6.0 <6.0 <6.0 <6.0 <6.0 <6.0 <6.0 <6.0 <6.0 <6.0 <6.0 <6.0 <6.0 <6.0 <6.0 <6.0 <6.0 <6.0 <6.0 <6.0 <6.0 <6.0 <6.0 <6.0 <6.0 <6.0 <6.0 <6.0 <6.0 <6.0 <6.0 <6.0 <6.0 <6.0 <6.0 <6.0 <6.0 <6.0 <6.0 <6.0 <6.0 <6.0 <6.0 <6.0 <6.0 <6.0 <6.0 <6.0 <6.0 <6.0 <6.0 <6.0 <6.0 <6.0 <6.0 <6.0 <6.0 <6.0 <6.0 <6.0 <6.0 <6.0 <6.0 <6.0 <6.0 <6.0 <6.0 <6.0 <6.	<1.0 <1.0 <1.0 <1.0 <1.0 <5.0 <5.0 <5.0 <5.0 <5.0 <5.0 <5.0 <5.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0	<3 <3 <3 <15 <15 <10 <10 <10 <10 <4.0 <2.0 <6.0 <6.0 <6.0 <4.00 <4.00 <4.00 <4.00	4 5 5 5 (1.0 82.2 6.2 50.7 77.7 56 <5.0 199 4.2 799 78.4 250 <3.0 321 8.23 23.3	NA NA NA S5 S5.0 S5.0 S5.0 S5.0 S5.0 S5.0 S5.0 S	NA NA NA NA NA NA	NA N	NA NA NA NA NA 100 <100 <50 <50 <50 <50 <50 <100 <100
	1/6/1999 3/29/1999 3/29/1999 6/24/1999 11/4/1999 11/20/2000 2/26/2001 1/22/2002 5/7/2002 10/2/2002 5/10/2003 5/18/2004 11/17/2004 6/20/2005 6/27/2006	147.61 147.61 147.61 147.61 147.61 147.61 147.61 147.61 147.61 147.61 147.61 147.61 147.20 147.20 147.20	7.94 7.35 7.15 8.20 7.84 7.65 7.62 8.10 8.37 7.52 9.42 7.18 7.92 7.82 NG 8.05 7.41 8.36	ND N	139.67 140.26 140.46 139.41 139.77 139.96 139.99 139.51 139.24 140.02 139.28 139.38 NA 139.15 139.15 139.15	<.1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0	<1.0 <1.0 <1.0 <1.0 <1.0 <5.0 <5.0 <5.0 <5.0 <5.0 <2.0 <1.0 <2.0 <3.0 <3.0 <3.0 <3.0 <3.0 <3.0 <3.00 <3.00 <3.00	<1.0 <1.0 <1.0 <1.0 <1.0 <5.0 <5.0 <5.0 <5.0 <5.0 <5.0 <5.0 <2.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0	3 3 3 3 5 5 5 5 5 5	4 5 5 5 5 6.2 6.2 50.7 77.7 56 <5.0 199 4.2 799 78.4 250 <3.0 321 8.23 23.3 26.0	NA NA NA S S S S S S S S S S S S S S S S	NA NA NA NA NA NA NA C100 C50 C50 C50 C50 C50 C50 C100 C100	NA N	NA N
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	1/6/1999 3/29/1999 3/29/1999 6/24/1999 11/4/1999 11/20/2000 2/26/2001 1/22/2002 5/1/2002 10/2/2002 5/1/2003 5/18/2004 11/17/2004 6/20/2005 12/16/2005 12/16/2005 12/14/2006 7/11/2007 1/8/2008	147.61 147.61 147.61 147.61 147.61 147.61 147.61 147.61 147.61 147.61 147.61 147.61 147.20 147.20 147.20 147.20 147.20 147.20	7.94 7.35 7.15 8.20 7.84 7.65 7.62 8.10 8.37 7.52 9.42 7.18 7.92 7.82 NG 8.05 7.41 8.36 8.02 7.30	ND N	139.67 140.26 140.46 139.41 139.71 139.96 139.99 139.51 140.09 137.78 140.02 139.28 140.02 139.28 139.38 NA 139.15 139.15 139.15 139.18	<1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <5.0 <5.0 <5.0 <5.0 <2.0 <1.0 <2.0 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00	 <1.0 <1.0 <1.0 <1.0 <1.0 <5.0 <li< td=""><td><1.0 <1.0 <1.0 <1.0 <1.0 <5.0 <5.0 <5.0 <5.0 <5.0 <5.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.00 <1.00</td><td> 3 3 3 3 5 5 5 5 5 5</td><td>4 5 5 5 5 6.2 6.2 50.7 77.7 56 <5.0 799 4.2 799 4.2 250 <3.0 321 8.23 23.3 260 <3.00 <3.00</td><td>NA NA NA NA NA S S S S S S S S S S S S S</td><td>NA NA NA NA NA NA NA</td><td>NA NA NA NA NA NA NA C-100 C-100 C-50 C-50 C-50 C-50 C-50 C-50 C-50 C-</td><td>NA NA NA NA NA NA NA NA NA NB NA NB NB</td></li<>	<1.0 <1.0 <1.0 <1.0 <1.0 <5.0 <5.0 <5.0 <5.0 <5.0 <5.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00	3 3 3 3 5 5 5 5 5 5	4 5 5 5 5 6.2 6.2 50.7 77.7 56 <5.0 799 4.2 799 4.2 250 <3.0 321 8.23 23.3 260 <3.00 <3.00	NA NA NA NA NA S S S S S S S S S S S S S	NA NA NA NA NA NA NA	NA NA NA NA NA NA NA C-100 C-100 C-50 C-50 C-50 C-50 C-50 C-50 C-50 C-	NA NA NA NA NA NA NA NA NA NB NA NB
	1/6/1999 3/29/1999 3/29/1999 6/24/1999 11/4/1999 11/4/1999 11/20/2000 2/26/2001 1/22/2002 5/7/2002 5/10/2003 11/12/2003 5/18/2004 6/20/2005 6/27/2006 12/14/2006 12/14/2006	147.61 147.61 147.61 147.61 147.61 147.61 147.61 147.61 147.61 147.61 147.61 147.61 147.20 147.20 147.20 147.20	7.94 7.35 7.15 8.20 7.84 7.65 7.62 8.10 8.37 7.52 9.42 7.18 7.92 7.82 NG 8.05 7.41 8.36 8.02	ND N	139.67 140.26 140.46 139.41 139.77 139.96 139.99 139.51 140.09 137.78 140.09 137.78 140.02 139.28 139.38 NA 139.15 139.79 138.84 139.15	<1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <5.0 <5.0 <5.0 <5.0 <2.0 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00	<1.0 <1.0 <1.0 <1.0 <1.0 <5.0 <5.0 <5.0 <5.0 <5.0 <2.0 <1.0 <2.0 <3.0 <3.0 <3.0 <3.0 <3.0 <3.0 <3.00 <3.00 <3.00 <3.00 <3.00 <3.00	<1.0 <1.0 <1.0 <1.0 <5.0 <5.0 <5.0 <5.0 <5.0 <2.0 <1.0 <2.0 <1.0 <1.0 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00	3 3 3 3 3 3 3 3 3 3	4 5 5 5 5 6.2 6.2 50.7 77.7 56 <5.0 199 78.4 250 <3.0 321 8.23 23.3 260 <3.00	NA NA NA NA S S S S S S S S S S S S S S	NA N	NA N	NA NB NA NB
	1/6/1999 3/29/1999 3/29/1999 6/24/1999 11/4/1999 11/20/2000 2/26/2001 1/22/2002 5/10/2003 11/12/2003 5/18/2004 11/17/2004 6/20/2005 6/27/2006 5/14/2005 6/27/2006 7/11/2007 1/8/2008	147.61 147.61 147.61 147.61 147.61 147.61 147.61 147.61 147.61 147.61 147.61 147.61 147.20 147.20 147.20 147.20 147.20 147.20 147.20 147.20 147.20	7.94 7.35 7.15 8.20 7.84 7.65 7.62 8.10 8.37 7.52 7.18 7.92 7.18 7.92 NG 8.05 7.41 8.36 8.02 7.30 7.70 8.07	ND N	139.67 140.26 140.46 139.41 139.77 139.96 139.95 139.51 140.09 137.78 140.02 139.28 139.38 NA 139.15 139.79 138.84 139.13 139.13	<.1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0	 <1.0 <li< td=""><td><1.0 <1.0 <1.0 <1.0 <1.0 <5.0 <5.0 <5.0 <5.0 <5.0 <5.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.00 <1.00</td><td> 3 3 3 3 3 3 3 3 3 3</td><td>4 5 5 5 5 6.2 6.2 50.7 77.7 56 <5.0 199 4.2 799 78.4 250 <3.0 321 8.23 23.3 260 <3.00 <3.00 <3.00 <3.00 <3.00 <3.00 <3.00 <3.00 <3.00 <3.00 <3.00 <3.00 <3.00 <3.00 <3.00 <3.00 <3.00 <3.00 <3.00 <3.00 <3.00 <3.00 <3.00 <3.00 <3.00 <3.00 <3.00 <3.00 <3.00 <3.00 <3.00 <3.00 <3.00 <3.00 <3.00 <3.00 <3.00 <3.00 <3.00 <3.00 <3.00 <3.00 <3.00 <3.00 <3.00 <3.00 <3.00 <3.00 <3.00 <3.00 <3.00 <3.00 <3.00 <3.00 <3.00 <3.00 <3.00 <3.00 <3.00 <3.00 <3.00 <3.00 <3.00 <3.00 <3.00 <3.00 <3.00 <3.00 <3.00 <3.00 <3.00 <3.00 <3.00 <3.00 <3.00 <3.00 <3.00 <3.00 <3.00 <3.00 <3.00 <3.00 <3.00 <3.00 <3.00 <3.00 <3.00 <3.00 <3.00 <3.00 <3.00 <3.00 <3.00 <3.00 <3.00 <3.00 <3.00 <3.00 <3.00 <3.00 <3.00 <3.00 <3.00 <3.00 <3.00 <3.00 <3.00 <3.00 <3.00 <3.00 <3.00 <3.00 <3.00 <3.00 <3.00 <3.00 <3.00 <3.00 <3.00 <3.00 <3.00 <3.00 <3.00 <3.00 <3.00 <3.00 <3.00 <3.00 <3.00 <3.00 <3.00 <3.00 <3.00 <3.00 <3.00 <3.00 <3.00 <3.00 <3.00 <3.00 <3.00 <3.00 <3.00 <3.00 <3.00 <3.00 <3.00 <3.00 <3.00 <3.00 <3.00 <3.00 <3.00 <3.00 <3.00 <3.00 <3.00 <3.00 <3.00 <3.00 <3.00 <3.00 <3.00 <3.00 <3.00 <3.00 <3.00 <3.00 <3.00 <3.00 <3.00 <3.00 <3.00 <3.00 <3.00 <3.00 <3.00 <3.00 <3.00 <3.00 <3.00 <3.00 <3.00 <3.00 <3.00 <3.00 <3.00 <3.00 <3.00 <3.00 <3.00 <3.00 <3.00 <3.00 <3.00 <3.00 <3.00 <3.00 <3.00 <3.00 <3.00 <3.00 <3.00 <3.00 <3.00 <3.00 <3.00 <3.00 <3.00 <3.00 <3.00 <3.00 <3.00 <3.00 <3.00 <3.00 <3.00 <3.00 <3.00 <3.00 <3.00 <3.00 <3.00 <3.00 <3.00 <3.00 <3.00 <3.00 <3.00 <3.00 <3.00 <3.00 <3.00 <3.00 <3.00 <3.00 <3.00 <3.00 <3.00 <3.00 <3.00 <3.00 <3.00 <3.00 <3.00 <3.00 <3.00 <3.00 <3.00 <3.00 <3.00 <3.00 <3.00 <3.00 <3.00 <3.00 <3.00 <3.00 <3.00 <3.00 <3.00 <3.00 <3.00 <3.00 <3.00 <3.00 <3.00 <3.00 <3.00 <3.00 <3.00 <3.00 <3.00 <3.00 <3.00 <3.00 <3.00 <3.00</td><td>NA NA NA NA NA NA S-5 S-0 S-5 S-5 S-5 S-5 S-5 S-5 S-5 S-5 S-5 S-5</td><td>NA NA NA NA NA NA</td><td>NA NA N</td><td>NA NA N</td></li<>	<1.0 <1.0 <1.0 <1.0 <1.0 <5.0 <5.0 <5.0 <5.0 <5.0 <5.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00	3 3 3 3 3 3 3 3 3 3	4 5 5 5 5 6.2 6.2 50.7 77.7 56 <5.0 199 4.2 799 78.4 250 <3.0 321 8.23 23.3 260 <3.00 <3.00 <3.00 <3.00 <3.00 <3.00 <3.00 <3.00 <3.00 <3.00 <3.00 <3.00 <3.00 <3.00 <3.00 <3.00 <3.00 <3.00 <3.00 <3.00 <3.00 <3.00 <3.00 <3.00 <3.00 <3.00 <3.00 <3.00 <3.00 <3.00 <3.00 <3.00 <3.00 <3.00 <3.00 <3.00 <3.00 <3.00 <3.00 <3.00 <3.00 <3.00 <3.00 <3.00 <3.00 <3.00 <3.00 <3.00 <3.00 <3.00 <3.00 <3.00 <3.00 <3.00 <3.00 <3.00 <3.00 <3.00 <3.00 <3.00 <3.00 <3.00 <3.00 <3.00 <3.00 <3.00 <3.00 <3.00 <3.00 <3.00 <3.00 <3.00 <3.00 <3.00 <3.00 <3.00 <3.00 <3.00 <3.00 <3.00 <3.00 <3.00 <3.00 <3.00 <3.00 <3.00 <3.00 <3.00 <3.00 <3.00 <3.00 <3.00 <3.00 <3.00 <3.00 <3.00 <3.00 <3.00 <3.00 <3.00 <3.00 <3.00 <3.00 <3.00 <3.00 <3.00 <3.00 <3.00 <3.00 <3.00 <3.00 <3.00 <3.00 <3.00 <3.00 <3.00 <3.00 <3.00 <3.00 <3.00 <3.00 <3.00 <3.00 <3.00 <3.00 <3.00 <3.00 <3.00 <3.00 <3.00 <3.00 <3.00 <3.00 <3.00 <3.00 <3.00 <3.00 <3.00 <3.00 <3.00 <3.00 <3.00 <3.00 <3.00 <3.00 <3.00 <3.00 <3.00 <3.00 <3.00 <3.00 <3.00 <3.00 <3.00 <3.00 <3.00 <3.00 <3.00 <3.00 <3.00 <3.00 <3.00 <3.00 <3.00 <3.00 <3.00 <3.00 <3.00 <3.00 <3.00 <3.00 <3.00 <3.00 <3.00 <3.00 <3.00 <3.00 <3.00 <3.00 <3.00 <3.00 <3.00 <3.00 <3.00 <3.00 <3.00 <3.00 <3.00 <3.00 <3.00 <3.00 <3.00 <3.00 <3.00 <3.00 <3.00 <3.00 <3.00 <3.00 <3.00 <3.00 <3.00 <3.00 <3.00 <3.00 <3.00 <3.00 <3.00 <3.00 <3.00 <3.00 <3.00 <3.00 <3.00 <3.00 <3.00 <3.00 <3.00 <3.00 <3.00 <3.00 <3.00 <3.00 <3.00 <3.00 <3.00 <3.00 <3.00 <3.00 <3.00 <3.00 <3.00 <3.00 <3.00 <3.00 <3.00 <3.00 <3.00 <3.00 <3.00 <3.00 <3.00 <3.00 <3.00 <3.00 <3.00 <3.00 <3.00 <3.00 <3.00 <3.00 <3.00 <3.00 <3.00 <3.00 <3.00 <3.00 <3.00 <3.00 <3.00 <3.00 <3.00 <3.00 <3.00 <3.00 <3.00 <3.00 <3.00 <3.00 <3.00 <3.00 <3.00 <3.00 <3.00 <3.00 <3.00 <3.00 <3.00	NA NA NA NA NA NA S-5 S-0 S-5	NA NA NA NA NA NA	NA N	NA N
	1/6/1999 3/29/1999 3/29/1999 6/24/1999 11/4/1999 11/20/2000 2/26/2001 1/22/2002 5/7/2002 10/2/2002 5/10/2003 5/18/2004 6/20/2005 12/16/2005 12/16/2005 12/16/2005 12/16/2005 12/16/2005 12/16/2005 12/16/2005 12/16/2005 12/16/2005	147.61 147.61 147.61 147.61 147.61 147.61 147.61 147.61 147.61 147.61 147.61 147.61 147.20 147.20 147.20 147.20 147.20 147.20 147.20 147.20 147.20 147.20	7.94 7.35 7.15 8.20 7.84 7.65 7.62 8.10 8.37 7.52 9.42 7.18 7.92 7.82 NG 8.05 7.41 8.36 8.02 7.30 7.70 8.01	ND N	139.67 140.26 140.46 139.41 139.71 139.99 139.51 139.24 140.02 139.28 139.28 139.38 NA 139.15 139.78 139.15 139.78 139.15 139.78 139.15 139.15 139.15 139.15 139.15 139.15	<.1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0	 <1.0 <1.0 <1.0 <1.0 <1.0 <2.0 <5.0 <5.0 <5.0 <5.0 <1.0 <l></l>	<1.0 <1.0 <1.0 <1.0 <1.0 <5.0 <5.0 <5.0 <5.0 <5.0 <5.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0	3 3 3 3 3 3 3 3 3 3	4 5 5 5 6.2 6.2 50.7 77.7 56 6.5.0 199 4.2 799 78.4 250 <3.0 3.21 8.23 23.3 260 <3.00 <3.00 <3.00 <3.00 <3.00 <3.00 <3.00 <3.00 <3.00 <3.00 <3.00 <3.00 <3.00 <3.00 <3.00 <3.00 <3.00 <3.00 <3.00 <3.00 <3.00 <3.00 <3.00 <3.00 <3.00 <3.00 <3.00 <3.00 <3.00 <3.00 <3.00 <3.00 <3.00 <3.00 <3.00 <3.00 <3.00 <3.00 <3.00 <3.00 <3.00 <3.00 <3.00 <3.00 <3.00 <3.00 <3.00 <3.00 <3.00 <3.00 <3.00 <3.00 <3.00 <3.00 <3.00 <3.00 <3.00 <3.00 <3.00 <3.00 <3.00 <3.00 <3.00 <3.00 <3.00 <3.00 <3.00 <3.00 <3.00 <3.00 <3.00 <3.00 <3.00 <3.00 <3.00 <3.00 <3.00 <3.00 <3.00 <3.00 <3.00 <3.00 <3.00 <3.00 <3.00 <3.00 <3.00 <3.00 <3.00 <3.00 <3.00 <3.00 <3.00 <3.00 <3.00 <3.00 <3.00 <3.00 <3.00 <3.00 <3.00 <3.00 <3.00 <3.00 <3.00 <3.00 <3.00 <3.00 <3.00 <3.00 <3.00 <3.00 <3.00 <3.00 <3.00 <3.00 <3.00 <3.00 <3.00 <3.00 <3.00 <3.00 <3.00 <3.00 <3.00 <3.00 <3.00 <3.00 <3.00 <3.00 <3.00 <3.00 <3.00 <3.00 <3.00 <3.00 <3.00 <3.00 <3.00 <3.00 <3.00 <3.00 <3.00 <3.00 <3.00 <3.00 <3.00 <3.00 <3.00 <3.00 <3.00 <3.00 <3.00 <3.00 <3.00 <3.00 <3.00 <3.00 <3.00 <3.00 <3.00 <3.00 <3.00 <3.00 <3.00 <3.00 <3.00 <3.00 <3.00 <3.00 <3.00 <3.00 <3.00 <3.00 <3.00 <3.00 <3.00 <3.00 <3.00 <3.00 <3.00 <3.00 <3.00 <3.00 <3.00 <3.00 <3.00 <3.00 <3.00 <3.00 <3.00 <3.00 <3.00 <3.00 <3.00 <3.00 <3.00 <3.00 <3.00 <3.00 <3.00 <3.00 <3.00 <3.00 <3.00 <3.00 <3.00 <3.00 <3.00 <3.00 <3.00 <3.00 <3.00 <3.00 <3.00 <3.00 <3.00 <3.00 <3.00 <3.00 <3.00 <3.00 <3.00 <3.00 <3.00 <3.00 <3.00 <3.00 <3.00 <3.00 <3.00 <3.00 <3.00 <3.00 <3.00 <3.00 <3.00 <3.00 <3.00 <3.00 <3.00 <3.00 <3.00 <3.00 <3.00 <3.00 <3.00 <3.00 <3.00 <3.00 <3.00 <3.00 <3.00 <3.00 <3.00 <3.00 <3.00 <3.00 <3.00 <3.00 <3.00 <3.00 <3.00 <3.00 <3.00 <3.00 <3.00 <3.00 <3.00 <3.00 <3.00 <3.00 <3.00 <3.00 <3.00 <3.00 <3.00 <3.00	NA NA NA NA S:5 S:0	NA NA NA NA NA (100 <100 <50 <50 <50 <50 <50 <50 <100 <10	NA NA NA NA NA (100 <100 <50 <50 <50 <50 <50 <50 <100 <10	NA N

OW-5	Benzene (μg/l)	ene /1)	Ethyl- benzene (µg/l)	Total Xylenes (µg/l)	MTBE (μg/l)	Naph- thalene (μg/l)	C ₅ -C ₈ Aliphatics (µg/l)	C ₉ -C ₁₂ Aliphatics (µg/l)	C ₉ -C ₁₀ Aromatic (µg/l)
OW-5	5	00	700	10,000	70	140	300	700	200
OW-5	2,000	000		3,000 5,000	50,000 50,000	700 20,000	3,000 50,000	5,000 50,000	4,000 50,000
1-10 1-10 1-	24	8	17	15.7	274	NA	NA	NA	NA
10/12/1997 144.43	< 0.2	.2	< 0.2	< 0.4	< 2.0	NA	NA	NA	NA
S/41/1998	6	.0	<1.0	<3	290	NA	NA	NA	NA
17-301/998	70 <1.0	.0	<1.0	<3 <3	3,100 <1.0	NA NA	NA NA	NA NA	NA NA
9/11/1998	46	0	36	37	1,300	NA	NA NA	NA NA	NA NA
10/26/1998	4	.0	<1.0	<3	190	NA	NA	NA	NA
12171/998	4	.0	<1.0	<3	54	NA	NA	NA	NA
16/1999	2	.0	<1.0	<3	29	NA	NA	NA	NA
29/1999	3	.0	<1.0	<3	52	NA	NA	NA	NA
3.6911999	<1.0 <1.0	.0	<1.0	<3 <3	2	NA NA	NA NA	NA NA	NA NA
6241999	1	.0	<1.0	3	9	NA	NA NA	NA NA	NA
11/41/99	7	.0	<5.0	<15	86.8	<5.0	<100	<100	<100
4/14/2000 144.43 4.89 ND 139.54 1/22/2002 144.43 5.81 ND 138.62 5/7/2002 144.43 5.81 ND 139.73 10/22/002 143.66 ND 139.77 10/22/002 143.66 6.39 ND 137.27 5/18/2004 143.66 6.39 ND 137.27 5/18/2004 143.66 NG NG NG NA 6/20/2005 143.66 NG NG NG NA 6/20/2005 143.66 NG NG NG NA 6/20/2005 143.66 1.779 ND 135.87 6/27/2006 143.66 4.11 ND 139.55 12/14/2006 143.66 5.12 ND 138.54 7/10/2007 143.66 5.12 ND 138.54 7/10/2007 143.66 5.44 ND 138.22 10/17/2007 143.66 6.03 ND 137.63 1/8/2008 143.66 4.01 ND 139.65 6/20/2008 143.66 4.01 ND 139.65 6/20/2008 143.66 4.01 ND 139.65 6/20/2008 143.66 4.13 ND 138.84 12/18/2008 143.66 4.30 ND 137.63 13/10/2009 143.66 4.30 ND 139.36 6/22/2009 143.66 4.48 ND 139.18 9/17/2009 143.66 4.95 ND 138.81 6/12/20/2009 143.66 4.95 ND 138.87 14/12/20/20/20/20/20/20/20/20/20/20/20/20/20	<1	.0	< 5.0	<15	< 5.0	< 5.0	<100	<100	<100
1/22/2002	<1	.0	< 5.0	<15	< 5.0	< 5.0	<100	<100	<100
57/2002	<1	.0	<5.0	<15	<5.0	<5.0	<100	<100	<100
10/12/2002	<5.0 <5.0	.0	<5.0 <5.0	<10 <10	72.8 <5.0	<5.0 <5.0	<50 <50	<50 <50	<50 <50
5/18/2004 143.66 5.05 ND 138.61	<2.0	.0	<2.0	<4.0	<2.0	<3.0	<50	<50	<50
11/17/2004 143.66 NG NG NA 6/20/2005 143.66 6.3 ND 137.36 12/15/2005 143.66 6.779 ND 135.87 6/27/2006 143.66 4.11 ND 139.55 12/14/2006 143.66 4.11 ND 139.55 12/14/2006 143.66 5.12 ND 138.54 7/10/2007 143.66 5.44 ND 138.22 10/17/2007 143.66 6.03 ND 137.63 1/8/2008 143.66 4.76 ND 138.94 9/25/2008 143.66 4.76 ND 138.94 9/25/2008 143.66 5.20 ND 138.46 12/18/2008 143.66 4.30 ND 139.36 3/10/2009 143.66 4.31 ND 139.53 6/22/2009 143.66 4.48 ND 139.18 9/17/2009 143.66 4.48 ND 139.18 9/17/2009 143.66 4.83 ND 138.83 6/11/2010 143.66 4.83 ND 138.83 6/11/2010 143.66 5.21 ND 138.71 4/21/2010 143.66 5.21 ND 138.71 4/21/2010 143.66 4.35 ND 138.51 6/11/2010 143.66 5.21 ND 138.51 6/11/2010 146.43 10.71 ND 135.72 1/1/2 10/22/1997 146.43 11.38 ND 135.05 6/24/1999 146.43 17.26 ND 139.17 9/11/1998 146.43 17.26 ND 139.17 9/11/1998 146.43 7.60 ND 131.43 11/4/1900 146.43 7.60 ND 131.43 11/4/2000 146.43 9.07 ND 137.36 2/25/2000 146.43 9.07 ND 137.36 2/25/2000 146.43 9.72 ND 137.56 5/7/2002 146.43 9.72 ND 136.51 17/16/2001 146.43 9.72 ND 137.60 17/16/2001 146.43 9.72 ND 137.60 17/16/2001 146.43 9.72 ND 136.51 17/16/2001 146.43 9.72 ND 137.60 17/16/2001 146.43 9.72 ND 136.51 17/16/2001 146.43 9.72 ND 136.51 17/16/2001 146.43 9.72 ND 136.51 17/16/2	<1.00	.0	<1.0	<6.0	<3.0	<5.0	<100	<100	<100
121/5/2005 143.66 7.79 ND 135.87	<1.00	.0	<1.0	< 6.0	<3.0	<5.0	<100	<100	<100
6/27/2006	<1.00	.0	<1.0	< 6.0	<3.0	< 5.0	<100	<100	<100
12/14/2006	<1.00	00	<1.00	<4.00	<3.00	<5.00	<100	<100	<100
7/10/2007 143.66 5.44 ND 138.22 10/17/2007 143.66 6.03 ND 137.63 1/8/2008 143.66 4.76 ND 138.9 3/21/2008 143.66 4.01 ND 139.65 6/20/2008 143.66 5.17 ND 138.49 9/25/2008 143.66 5.20 ND 138.49 9/25/2008 143.66 5.20 ND 138.46 12/18/2008 143.66 4.30 ND 139.36 3/10/2009 143.66 4.31 ND 139.36 6/22/2009 143.66 4.48 ND 139.18 9/17/2009 143.66 4.48 ND 139.18 9/17/2009 143.66 4.48 ND 139.18 9/17/2009 143.66 4.83 ND 138.83 1/3/2009 143.66 4.83 ND 138.83 6/12/2010 143.66 4.83 ND 138.83 6/12/2010 143.66 5.21 ND 138.71 4/21/2010 143.66 5.21 ND 138.71 4/21/2010 143.66 5.21 ND 138.71 4/21/2010 143.66 5.21 ND 138.51 6/4/1997 146.43 10.71 ND 135.72 1/1/2019 146.43 11.38 ND 135.05 5/4/1998 146.43 11.38 ND 135.05 9/17/209 146.43 11.38 ND 135.05 1/3/201999 146.43 17.26 ND 139.17 9/11/1998 146.43 17.26 ND 139.17 9/11/1998 146.43 17.25 ND 139.14 11/4/1999 146.43 7.60 ND 138.83 1/3/2000 146.43 7.60 ND 138.83 1/3/2000 146.43 7.60 ND 138.83 1/3/2000 146.43 7.60 ND 138.83 2/26/2001 146.43 NG NG NG NA 8/21/2000 146.43 9.07 ND 137.36 2/26/2001 146.43 9.07 ND 137.36 2/26/2001 146.43 9.07 ND 137.61 1/22/2002 146.43 9.72 ND 136.51 1/2/2003 146.43 9.72 ND 136.52 5/7/2002 146.43 9.72 ND 136.51 1/2/2003 147.09 NG NG NA 5/18/2004 147.09 NG NG NA 5/18/2006 147.09 7.81 ND 138.76 1/2/2006 147.09 NG NG NA 5/18/2006 147.09 NG NG NA 5/18/2008 147.09 NG ND 138.37 7/10/2007 147.09 NG NG NA 5/18/2008 147.09 NG ND 138.39 3/10/2009 147.09 NG ND ND 138.39 3/10/2009 147.09 NG ND ND 138.39 3/10/2009 147.09 NG ND ND 138.39	<1.00	00	3.83	<4.00	253	<5.00	<100 <100	<100 <100	534 <100
1017/2007	<1.00 <1.00	00	<1.00 14.6	<6.00 4.12	6.87 12.1	<5.00 <5.00	<100 287	<100 344	<100 588
1/8/2008	5.06	35	10.2	7.20	18.8	<5.00	<100	127	57.9
6/20/2008	<1.00	00	<1.00	<6.00	<3.00	< 5.00	<100	<100	<100
9/25/2008	<1.00	00	<1.00	< 6.00	< 3.00	< 5.00	<100	<100	<100
12/18/2008	<1.00	00	<1.00	<4.00	< 3.00	< 5.00	<100	<100	<100
3/10/2009	<1.00	00	<1.00	<6.00	<3.00	<5.00	<100	<100	<100
6/22/2009	<1.00 <1.00	00	<1.00 <1.00	<6.00 <6.00	<3.00	<5.00 <5.00	<100 <100	<100 <100	<100 <100
9/17/2009	<1.00	00	<1.00	<6.00	<3.00	<5.00	<100	<100	<100
12/23/2009	<1.00	00	<1.00	<6.00	<3.00	< 5.00	<100	<100	<100
OW-6 4/3/1997 146.43 9.92 ND 138.45 GW-1,3) 7/21/1997 146.43 10.71 ND 136.51 GW-1,3) 7/21/1997 146.43 10.71 ND 135.72 J-15' 10/22/1997 146.43 7.26 ND 139.17 9/11/1998 146.43 7.26 ND 139.17 9/11/1998 146.43 11.39 ND 135.04 3/29/1999 146.43 15.00 ND 131.43 11/4/1999 146.43 15.00 ND 131.43 11/4/1999 146.43 7.65 ND 138.78 2/26/2000 146.43 7.65 ND 138.78 2/26/2000 146.43 9.07 ND 137.36 2/26/2001 146.43 9.07 ND 137.43 2/26/2001 146.43 9.41 ND 137.43 2/26/2001 146.43 9.91 ND 136.52 5/10/2002	<1.00	00	<1.00	< 6.00	< 3.00	< 5.00	<100	<100	<100
OW-6	<1.00	00	<1.00	< 6.00	< 3.00	< 5.00	<100	<100	<100
GW-1,3)	<1.00	00	<1.00	<6.00	<3.00	< 5.00	<100	<100	<100
30 30 30 30 30 30 30 30	16	D	44	28.6	1,720	NA	NA	NA	NA
1-15' 10/22/1997 146.43 11.38 ND 135.05	340	0	63	250	11,000	NA	NA NA	NA NA	NA
9/11/1998 146.43 11.39 ND 135.04 3/29/1999 146.43 7.25 ND 139.18 6/24/1999 146.43 7.25 ND 139.18 11/4/1999 146.43 7.60 ND 138.83 11/4/1999 146.43 7.60 ND 138.83 13/2000 146.43 7.65 ND 138.78 2/16/2000 146.43 9.07 ND 137.36 2/25/2000 146.43 9.07 ND 137.36 2/25/2000 146.43 9.07 ND 137.36 8/21/2000 146.43 9.41 ND 137.02 11/20/2000 146.43 9.71 ND 137.61 7/16/2001 146.43 9.72 ND 136.67 1/12/2002 146.43 9.91 ND 136.52 5/7/2002 146.43 8.74 ND 137.69 5/10/2003 147.09 NG NG NA 5/18/2004 147.09 NG NG NA 5/18/2004 147.09 NG NG NA 6/2/2005 147.09 8.92 ND 138.04 11/19/2004 147.09 NG NG NA 6/2/2006 147.09 7.81 ND 139.41 6/27/2006 147.09 7.81 ND 139.28 12/13/2006 147.09 7.81 ND 139.28 12/13/2006 147.09 9.87 ND 138.17 12/16/2005 147.09 7.88 ND 138.37 7/10/2007 147.09 10.59 ND 136.5 1/8/2008 147.09 8.98 ND 138.37 7/10/2007 147.09 9.89 ND 138.37 12/18/2008 147.09 8.98 ND 138.39 3/10/2009 147.09 8.98 ND 138.39 3/10/2009 147.09 8.98 ND 138.39 3/10/2009 147.09 8.83 ND 138.39 3/10/2009 147.09 8.83 ND 138.39 3/10/2009 147.09 8.83 ND 138.39 1/17/2009 147.09 8.82 ND 138.39	2,200	00	310	2,300	14,000	NA	NA	NA	NA
3/29/1999	22	!	73	<3	570	NA	NA	NA	NA
624/1999 146.43 15.00 ND 131.43 11/41/1999 146.43 7.60 ND 138.83 17/3/2000 146.43 7.65 ND 138.83 17/3/2000 146.43 9.07 ND 137.36 22/5/2000 146.43 9.07 ND 137.36 22/5/2000 146.43 9.07 ND 137.36 14/14/2000 146.43 NG NG NG NA 8/21/2000 146.43 9.41 ND 137.02 11/20/2000 146.43 9.41 ND 137.02 11/20/2000 146.43 9.41 ND 137.02 11/20/2000 146.43 8.82 ND 137.61 7/16/2001 146.43 8.82 ND 137.61 7/16/2001 146.43 9.72 ND 136.71 1/22/2002 146.43 9.91 ND 136.52 5/7/2002 146.43 9.91 ND 136.52 5/7/2002 146.43 8.74 ND 137.69 5/10/2003 147.09 NG NG NA 5/18/2004 147.09 NG NG NA 5/18/2004 147.09 NG NG NA 6/2/2005 147.09 8.92 ND 138.17 12/16/2005 147.09 8.92 ND 138.17 12/16/2005 147.09 7.81 ND 139.28 12/13/2006 147.09 7.81 ND 139.28 12/13/2006 147.09 7.81 ND 139.28 12/13/2006 147.09 10.59 ND 138.07 10/17/2007 147.09 10.59 ND 136.51 18/2008 147.09 9.87 ND 138.57 7/10/2007 147.09 10.59 ND 136.51 18/2008 147.09 9.88 ND 138.07 10/17/2007 147.09 10.59 ND 136.55 18/2008 147.09 9.88 ND 138.07 10/17/2007 147.09 10.59 ND 136.55 18/2008 147.09 9.88 ND 136.55 18/2008 147.09 9.89 ND 136.55 12/18/2008 147.09 8.98 ND 136.55 12/18/2008 147.09 8.98 ND 136.55 12/18/2008 147.09 8.98 ND 136.53 12/12/2008 147.09 8.98 ND 136.53 12/12/2009 147.09 8.93 ND 136.53 12/12/2009 147.09 8.22 ND 136.53 12/12/2009 147.09 8.22 ND 136.53 12/12/2009 147.09	31	.0	18	<3	2,600	NA	NA	NA	NA
11/41/1999	<1.0	.0	<1.0	<3	2	NA 5.0	NA	NA 100	NA
1/3/2000	<1.0 102	.0	<5.0 170	<15 295.2	6.6 15,500	<5.0 55.6	<100 <2,000	<100 <2,000	<100 2,300
2/16/2000 146.43 9.07 ND 137.36 2/25/2000 146.43 9.07 ND 139.46 4/14/2000 146.43 NG NG NG NA 8/21/2000 146.43 9.41 ND 137.02 11/20/2000 146.43 9.41 ND 137.02 11/20/2000 146.43 9.41 ND 137.02 11/20/2000 146.43 9.72 ND 136.71 1/22/2001 146.43 9.72 ND 136.71 1/22/2002 146.43 9.72 ND 136.71 1/22/2002 146.43 9.72 ND 136.71 1/22/2002 146.43 8.74 ND 137.69 5/10/2003 147.09 NG NG NA 11/12/2003 147.09 NG NG NA 5/18/2004 147.09 NG NG NA 6/2/2005 147.09 NG NG NA 6/2/2005 147.09 NG NG NB 11/12/2006 147.09 NG NG NB 12/16/2005 147.09 NG NG NB 12/16/2005 147.09 NG NG NB 12/16/2005 147.09 NG NG NG NB 12/16/2006 147.09 NG NG NG NG 138.37 17/10/2007 147.09 10.59 ND 138.61 18/2008 147.09 NG ND 138.37 16/2009 147.09 NG ND 138.65 18/2008 147.09 NG ND 138.65 18/2008 147.09 NG ND 138.65 12/18/2008 147.09 NG ND 138.39 3/10/2009 147.09 NG ND 138.31	290	5	161	501	21,700	59	<500	1,090	3,500
4/14/2000 146,43 NG NG NA 8/21/2000 146,43 NG NG NA 8/21/2000 146,43 9.41 ND 137,02 11/20/2000 146,43 9.00 ND 137,43 22/26/2001 146,43 9.00 ND 137,43 22/26/2001 146,43 9.72 ND 136,71 1/22/2002 146,43 9.91 ND 136,52 5/7/2002 146,43 9.91 ND 136,52 5/7/2002 146,43 8.74 ND 137,69 5/10/2003 147,09 NG NG NA 11/12/2003 147,09 NG NG NA 5/18/2004 147,09 NG NG NA 6/2/2005 147,09 NG NG NA 6/2/2005 147,09 NG NG NA 11/19/2004 147,09 NG NG NA 6/2/2005 147,09 8.92 ND 138,17 12/16/2005 147,09 7.81 ND 139,28 12/13/2006 147,09 7.81 ND 139,28 12/13/2006 147,09 10,59 ND 136,51 18/2008 147,09 10,59 ND 136,51 18/2008 147,09 10,59 ND 136,55 18/2008 147,09 7.86 ND 138,01 10/17/2007 147,09 10,59 ND 136,55 18/2008 147,09 7.86 ND 138,01 10/17/2007 147,09 7.86 ND 138,01 10/17/2007 147,09 10,59 ND 136,55 18/2008 147,09 8.87 ND 137,56 9/25/2008 147,09 8.88 ND 138,01 12/18/2008 147,09 8.87 ND 137,56 9/25/2008 147,09 8.98 ND 133,39 3/10/2009 147,09 8.98 ND 138,39 3/10/2009 147,09 8.83 ND 138,13 9/17/2009 147,09 8.30 ND 138,13 9/17/2009 147,09 8.30 ND 138,13	286	5	194	659	12,700	52	<500	1,480	3,050
8/21/2000 146.43 9.41 ND 137.02 11/20/2000 146.43 9.00 ND 137.43 2/26/2001 146.43 9.00 ND 137.61 7/16/2001 146.43 9.72 ND 136.71 1/22/2002 146.43 9.72 ND 136.71 1/22/2002 146.43 8.74 ND 137.69 5/17/2002 146.43 8.74 ND 137.69 5/10/2003 147.09 S.53 ND 141.56 11/12/2003 147.09 9.05 ND 138.04 11/19/2004 147.09 9.05 ND 138.04 11/19/2004 147.09 9.05 ND 138.04 11/19/2005 147.09 8.92 ND 138.17 12/16/2005 147.09 8.92 ND 138.17 12/16/2006 147.09 7.81 ND 139.28 12/13/2006 147.09 8.72 ND 136.5 <td>270</td> <td></td> <td>190</td> <td>650</td> <td>11,000</td> <td>NS</td> <td>NS</td> <td>NS</td> <td>NS</td>	270		190	650	11,000	NS	NS	NS	NS
11/20/2000	26.8	.0	<5.0	<15	2,210	<5.0	<100	<100	<100
226/2001	51.3	.0	33.4	<17.1	4,120	<5.0	<100	<100	150
7/16/2001 146.43 9.72 ND 136.71 1/22/2002 146.43 9.91 ND 136.52 5/7/2002 146.43 9.91 ND 136.52 5/7/2003 147.09 5.53 ND 141.56 11/12/2003 147.09 5.53 ND 141.56 11/12/2003 147.09 NG NG NA 5/18/2004 147.09 NG NG NA 6/2/2005 147.09 NG NG NA 6/2/2005 147.09 7.68 ND 138.17 12/16/2005 147.09 7.68 ND 138.17 12/16/2005 147.09 7.68 ND 138.94 6/27/2006 147.09 7.68 ND 138.91 12/13/2006 147.09 9.08 ND 138.01 10/17/2007 147.09 9.08 ND 138.01 10/17/2007 147.09 9.08 ND 138.01 10/17/2007 147.09 10.59 ND 136.5 1/8/2008 147.09 7.86 ND 139.23 6/20/2008 147.09 7.86 ND 139.23 6/20/2008 147.09 7.86 ND 139.23 6/20/2008 147.09 8.84 ND 138.68 3/21/2008 147.09 7.86 ND 139.23 6/20/2008 147.09 8.87 ND 137.56 9/25/2008 147.09 8.98 ND 137.45 12/18/2008 147.09 8.98 ND 137.45 12/18/2008 147.09 8.98 ND 137.45 12/18/2008 147.09 8.98 ND 138.39 3/10/2009 147.09 8.3 ND 138.13 9/17/2009 147.09 8.3 ND 138.13 9/17/2009 147.09 8.80 ND 138.13	<5 5	.0	<5.0 <5	<10 <15	216 156	<5.0 <5.0	<50 <100	<50 <100	<50 <100
1/22/2002	17.7	0	36.2	<20	6,370	11.1	<100	151	272
5/7/2002 146.43 8.74 ND 137.69 5/10/2003 147.09 5.53 ND 141.56 11/12/2003 147.09 9.5 ND 18.04 5/18/2004 147.09 9.05 ND 138.04 11/19/2004 147.09 NG NA 6/27/2005 147.09 NG NA 6/27/2005 147.09 7.68 ND 138.17 129.41 6/27/2006 147.09 7.68 ND 139.41 672/2006 147.09 8.72 ND 138.37 7/10/2007 147.09 9.08 ND 138.37 7/10/2007 147.09 9.08 ND 138.50 10/17/2007 147.09 9.08 ND 138.50 11/17/2007 147.09 9.84 ND 138.68 3/21/2008 147.09 8.84 ND 138.68 3/21/2008 147.09 8.88 ND 137.45 12/18/2008 147.09 8.98 ND 137.45 12/18/2008 147.09 8.98	<5.0	.0	<5.0	<10	13.7	<5.0	<50	<50	<50
11/12/2003 147.09 NG NG NA 5/18/2004 147.09 9.05 ND 138.04 11/19/2004 147.09 9.05 ND 138.04 11/19/2004 147.09 8.92 ND 138.17 12/16/2005 147.09 8.92 ND 138.17 12/16/2005 147.09 7.68 ND 139.41 6/27/2006 147.09 7.68 ND 139.28 12/13/2006 147.09 8.72 ND 138.37 7/10/2007 147.09 8.72 ND 138.57 10/17/2007 147.09 10.59 ND 136.5 18/2008 147.09 8.41 ND 138.68 3/21/2008 147.09 8.87 ND 137.56 9/25/2008 147.09 8.98 ND 137.56 12/18/2008 147.09 8.04 ND 138.39 3/10/2009 147.09 8.3 ND 138.13 9/17/2009 147.09 8.3 ND 138.13 9/17/2009 147.09 8.83 ND 138.13 9/17/2009 147.09 8.82 ND 138.13 9/17/2009 147.09 8.82 ND 138.13 137.63 12/23/2009 147.09 8.82 ND 138.13	74	.3	116	191	1,380	24	<50	274	841
5/18/2004 147.09 9.05 ND 138.04 11/19/2004 147.09 NG NG NA 6/27/2005 147.09 NG ND 138.17 12/16/2005 147.09 7.68 ND 139.41 6/27/2006 147.09 7.68 ND 139.28 12/13/2006 147.09 7.81 ND 138.27 7/10/2007 147.09 9.08 ND 138.01 10/17/2007 147.09 9.08 ND 138.61 1/8/2008 147.09 8.41 ND 138.68 3/21/2008 147.09 7.86 ND 139.23 6/20/2008 147.09 8.98 ND 137.45 12/18/2008 147.09 8.98 ND 137.45 12/22/2009 147.09 8.3 ND 138.49 6/22/2009 147.09 8.3 ND 138.13 9/17/2009 147.09 8.80 ND 137.63	<2.0	.0	<2.0	<4.0	28.2	<3.0	<50	<50	<50
11/19/2004 147.09 NG NG NA	<2.0	.0	<2.0	<4.0	3.8	< 3.0	<50	<50	<50
6/22/005 147.09 8.92 ND 138.17 12/16/2005 147.09 7.68 ND 139.41 6/27/2006 147.09 8.781 ND 139.28 12/13/2006 147.09 8.72 ND 138.37 7/10/2007 147.09 8.72 ND 138.37 10/17/2007 147.09 10.59 ND 136.5 1/8/2008 147.09 8.41 ND 138.68 3/21/2008 147.09 8.41 ND 138.68 3/21/2008 147.09 8.87 ND 139.23 6/20/2008 147.09 8.87 ND 137.45 12/18/2008 147.09 8.98 ND 138.39 3/10/2009 147.09 8.3 ND 138.39 17/12/2009 147.09 8.3 ND 138.13 9/17/2009 147.09 8.80 ND 137.63 12/23/2009 147.09 8.80 ND 137.63	<1.00 <1.00	.0	<1.0	<6.0 <6.0	15.4 <3.0	<5.0 <5.0	<100 <100	<100 <100	<100 <100
12/16/2005 147/09 7.68 ND 139/41	<1.00	.0	<1.0	<6.0	<3.0	<5.0	<100	<100	<100
627/2006 147.09 7.81 ND 139.28 12/13/2006 147.09 8.72 ND 138.37 7/10/2007 147.09 9.08 ND 138.37 10/17/2007 147.09 10.59 ND 136.5 1/8/2008 147.09 4.41 ND 138.68 3/21/2008 147.09 7.86 ND 139.23 6/20/2008 147.09 8.87 ND 137.56 9/25/2008 147.09 8.98 ND 137.45 12/18/2008 147.09 8.04 ND 138.39 3/10/2009 147.09 8.04 ND 138.39 3/10/2009 147.09 8.3 ND 138.13 9/17/2009 147.09 8.3 ND 138.13 9/17/2009 147.09 8.3 ND 138.13 9/17/2009 147.09 8.3 ND 138.13	<1.00	00	<1.00	<4.00	<3.00	<5.00	<100	<100	<100
7/10/2007 147/09 9.08 ND 138.01 10/17/2007 147/09 10.59 ND 138.61 1/8/2008 147/09 8.41 ND 138.68 3/21/2008 147/09 7.86 ND 139.23 6/20/2008 147/09 8.87 ND 137.56 9/25/2008 147/09 8.98 ND 137.45 12/18/2008 147/09 8.98 ND 137.45 12/18/2008 147/09 8.04 ND 138.39 3/10/2009 147/09 7.94 ND 138.39 6/22/2009 147/09 8.3 ND 138.13 9/17/2009 147/09 8.80 ND 137.63 12/3/2009 147.09 8.22 ND 138.13	<1.00	00	<1.00	<4.00	<3.00	< 5.00	<100	<100	<100
10/17/2007 147.09 10.59 ND 136.5 1/8/2008 147.09 8.41 ND 138.68 3/21/2008 147.09 8.41 ND 138.68 3/21/2008 147.09 8.87 ND 137.56 9/25/2008 147.09 8.98 ND 137.45 121/8/2008 147.09 8.94 ND 138.39 3/10/2009 147.09 8.04 ND 138.49 6/22/2009 147.09 8.3 ND 138.13 9/17/2009 147.09 8.80 ND 137.63 12/23/2009 147.09 8.22 ND 138.21	<1.00	00	<1.00	< 6.00	< 3.00	< 5.00	<100	<100	<100
1/8/2008 147.09 8.41 ND 138.68 3/21/2008 147.09 7.86 ND 139.23 6/20/2008 147.09 8.87 ND 137.56 9/25/2008 147.09 8.98 ND 137.45 12/18/2008 147.09 8.98 ND 138.39 3/10/2009 147.09 8.04 ND 138.39 6/22/2009 147.09 8.3 ND 138.13 9/17/2009 147.09 8.80 ND 137.63 12/23/2009 147.09 8.22 ND 138.21	<1.00	00	<1.00	<6.00	<3.00	<5.00	<100	<100	<100
3.21/2008 147.09 7.86 ND 139.23 6/20/2008 147.09 8.87 ND 137.56 9/25/2008 147.09 8.98 ND 137.45 12/18/2008 147.09 8.04 ND 138.39 3/10/2009 147.09 8.04 ND 138.39 6/22/2009 147.09 8.3 ND 138.13 9/17/2009 147.09 8.3 ND 138.13 12/23/2009 147.09 8.22 ND 138.21	<1.00	00	<1.00	<6.00	<3.00	<5.00	<100	<100 <100	<100
620/2008 147.09 8.87 ND 137.56 9/25/2008 147.09 8.98 ND 137.45 12/18/2008 147.09 8.04 ND 137.45 3/10/2009 147.09 8.04 ND 138.39 3/10/2009 147.09 7.94 ND 138.49 6/22/2009 147.09 8.3 ND 138.13 9/17/2009 147.09 8.80 ND 137.63 12/23/2009 147.09 8.22 ND 138.21	<1.00 <1.00	00	<1.00	<6.00 <6.00	<3.00	<5.00	<100 <100	<100 <100	<100
9/25/2008 147.09 8.98 ND 137.45 12/18/2008 147.09 8.04 ND 138.39 3/10/2009 147.09 7.94 ND 138.49 6/22/2009 147.09 8.3 ND 138.13 9/17/2009 147.09 8.80 ND 137.63 12/23/2009 147.09 8.22 ND 138.21	<1.00	00	<1.00	<6.00	<3.00	<5.00	<100	<100	<100
12/18/2008 147.09 8.04 ND 138.39 3/10/2009 147.09 7.94 ND 138.49 6/22/2009 147.09 8.3 ND 138.13 9/17/2009 147.09 8.80 ND 137.63 12/23/2009 147.09 8.22 ND 138.21	<1.00	00	<1.00	<6.00	<3.00	<5.00	<100	<100	<100
6/22/2009 147.09 8.3 ND 138.13 9/17/2009 147.09 8.80 ND 137.63 12/23/2009 147.09 8.22 ND 138.21	<1.00	00	<1.00	<6.00	<3.00	< 5.00	<100	<100	<100
9/17/2009 147.09 8.80 ND 137.63 12/23/2009 147.09 8.22 ND 138.21	<1.00	00	<1.00	< 6.00	<3.00	< 5.00	<100	<100	<100
12/23/2009 147.09 8.22 ND 138.21	<1.00	00	<1.00	<6.00	<3.00	<5.00	<100	<100	<100
	<1.00	00	<1.00	<6.00	<3.00	<5.00	<100	<100 <100	<100
4/21/2010 147.09 8.52 ND 137.91	<1.00 <1.00	00	<1.00	<6.00 <6.00	<3.00	<5.00 <5.00	<100 <100	<100 <100	<100 <100
6/10/2010 147.09 8.32 ND 137.91 6/10/2010 147.09 9.38 ND 137.05	<1.00	00	<1.00	<6.00	<3.00	<5.00	<100	<100	<100

Andore	er, MA													
Well No. (GW Class) Screen Interval (ft.)	Sampling Date	Top of Casing Elevation (ft)	Depth to Water (ft)	Depth to LNAPL (ft)	Ground Water Elevation (ft)	Benzene (μg/l)	Toluene (µg/l)	Ethyl- benzene (µg/l)	Total Xylenes (µg/l)	MTBE (μg/l)	Naph- thalene (μg/l)	C ₅ -C ₈ Aliphatics (µg/l)	C ₉ -C ₁₂ Aliphatics (µg/l)	C ₉ -C ₁₀ Aromatics (µg/l)
l l	ı		G	W-1		5	1,000	700	10,000	70	140	300	700	200
MCP Method	1 Standards		G	W-2		2,000	50,000	20,000	3,000	50,000	700	3,000	5,000	4,000
				W-3		10,000	40,000	5,000	5,000	50,000	20,000	50,000	50,000	50,000
OW-7	5/20/1998	145.82	5.49	ND	140.33	<1	<1	<1	<3	<1	NA	NA	NA	NA
(GW-1,3)	10/26/1998	145.82	7.69	ND	138.13	<1.0	<1.0	<1.0	<3	<1.0	NA	NA	NA	NA
1-15'	11/13/1998	145.82	7.65	ND	138.17	<1.0	<1.0	<1.0	<3	7	NA	NA	NA	NA
	12/17/1998	145.82	7.92	ND	137.90	<1.0	<1.0	<1.0	<3	2	NA	NA	NA	NA
	1/6/1999 2/9/1999	145.82 145.82	7.35	ND ND	138.47 138.77	<1.0 <1.0	<1.0	<1.0	<3	<1.0	NA NA	NA NA	NA NA	NA NA
	3/29/1999	145.82	6.88	ND ND	138.77	<1.0	<1.0	<1.0	<3	<1.0	NA NA	NA NA	NA NA	NA NA
	6/24/1999	145.82	8.67	ND	137.15	<1.0	<5.0	<5.0	<15	9.3	<5.0	<100	<100	<100
	2/16/2000	145.82	7.15	ND	138.67	<1.0	<5.0	<5.0	<15	<5.0	<5.0	<100	<100	<100
	11/20/2000	145.82	7.45	ND	138.37	<5.0	<5.0	<5.0	<10	<5.0	<5.0	<50	<50	<50
	1/22/2002	145.82	8.10	ND	137.72	< 5.0	< 5.0	< 5.0	<10	< 5.0	<5.0	<50	<50	<50
	5/7/2002	145.82	7.17	ND	138.65	<5.0	<5.0	<5.0	<10	<5.0	<5.0	<50	<50	<50
	10/2/2002	145.42	8.32	ND	137.10	<2.0	<2.0	<2.0	<4.0	2.5	<3.0	<50	<50	<50
OW-8	5/20/1998	146.28	7.69	ND	138.59	<1.0	<1.0	<1.0	<3	<1.0	NA	NA	NA	NA
(GW-1,3)	7/30/1998	146.28	8.18	ND	138.10	<1.0	<1.0	<1.0	<3	<1.0	NA	NA	NA	NA
2-15'	9/11/1998	146.28	8.75	ND	137.53	<1.0	<1.0	<1.0	<3	<1.0	NA	NA	NA	NA
	10/26/1998	146.28	8.09	ND	138.19	<1.0	<1.0	<1.0	<3	<1.0	NA	NA	NA	NA
	11/13/1998	146.28	8.07	ND	138.21	<1.0	<1.0	<1.0	<3	<1.0	NA	NA	NA	NA
	12/17/1998	146.28	8.33	ND	137.95	<1.0	<1.0	<1.0	<3	<1.0	NA	NA	NA	NA
	1/6/1999	146.28	7.75	ND	138.53	<1.0	<1.0	<1.0	<3	<1.0	NA	NA	NA	NA
	2/9/1999	146.28	7.48	ND	138.80	<1.0	<1.0	<1.0	<3	<1.0	NA	NA	NA	NA
	3/29/1999	146.28	7.23	ND	139.05	<1.0	<1.0	<1.0	<3	<1.0	NA 5.0	NA 100	NA 100	NA 100
	6/24/1999 11/20/2000	146.28 146.28	8.46 7.81	ND ND	137.82 138.47	<1.0 <5.0	<5.0 <5.0	<5.0 <5.0	<15 10	<5.0 <5.0	<5.0 <5.0	<100 <50	<100 <50	<100 <50
	1/22/2002	146.28	8.43	ND	137.85	<5.0	<5.0	<5.0	10	<5.0	<5.0	<50	<50	<50
	1/22/2002	140.20	0.43	ND	137.03	₹3.0	₹3.0	√3.0	10	√3.0	₹3.0			\J0
OW-9	7/30/1998	147.49	8.60	ND	138.89	<1.0	<1.0	<1.0	<3	24	NA	NA	NA	NA
(GW-1,3)	9/11/1998	147.49	9.23	ND	138.26	<1.0	<1.0	<1.0	<3	6	NA	NA	NA	NA
1-15'	10/26/1998	147.49	8.60	ND	138.89	<1.0	<1.0	<1.0	<3	3	NA	NA	NA	NA
	11/13/1998	147.49	8.64	ND	138.85	<1.0	<1.0	<1.0	<3	2	NA	NA	NA	NA
	12/17/1998	147.49	8.94	ND	138.55	<1.0	<1.0	<1.0	<3	4	NA	NA	NA	NA
	1/6/1999	147.49	8.27	ND	139.22	<1.0	<1.0	<1.0	<3	2	NA	NA	NA	NA
	2/9/1999	147.49	7.88	ND	139.61	<1.0	<1.0	<1.0	<3	18	NA	NA	NA	NA
	3/29/1999	147.49 147.49	7.79 9.09	ND	139.70	<1.0	<1.0	<1.0	<3	1	NA 8.4	NA <100	NA	NA <100
	6/24/1999 11/4/1999	147.49		ND ND	138.40	2.6	<5 97.3	<5 39.3	61.5	27.3 1,830		<100	<100 100	180
	1/3/2000	147.49	8.18 8.44	ND ND	139.31 139.05	8.6 <1.0	<5.0	<5.0	191.4 <15	592	6.2 <5.0	<100	<100	<100
	4/14/2000	147.49	NG	NG	NA	18.6	20	30.6	101.6	670	<5.0	<100	220	290
	8/21/2000	147.49	9.53	ND	137.96	<1.0	<5.0	<5.0	<15	<5.0	<5.0	<100	<100	<100
	11/20/2000	147.49	8.95	ND	138.54	<5.0	<5.0	<5.0	<10	726	<5.0	<50	<50	<50
	2/26/2001	147.49	8.72	ND	138.77	14.8	<5.0	18.2	<15	393	<5.0	<100	<100	<100
	1/22/2002	147.49	10.18	ND	137.31	< 5.0	< 5.0	< 5.0	<10	10.8	<5.0	<50	<50	<50
	11/12/2003	147.40	9.45	ND	137.95	<2.0	<2.0	<2.0	<2.0	6.1	<3.0	<50	<50	<50
	5/18/2004	147.40	9.10	ND	138.30	<1.00	<3.0	1.1	<6.0	29.4	<5.0	<100	<100	<100
	11/19/2004	147.40	NG	NG	NA	<1.00	<3.0	<1.0	<6.0	<3.0	<5.0	<100	<100	<100
	6/2/2005	147.40 147.40	8.07	ND ND	139.33	<1.00	<3.00	<1.0	<6.0	<3.00	<5.00 <5.00	<100 <100	<100 <100	<100 <100
	12/16/2005 6/27/2006	147.40 147.40	8.07 9.05	ND ND	139.33 138.35	<1.00	<3.00	<1.00	<4.00 <4.00	<3.00	<5.00	<100 <100	<100 <100	<100
	7/10/2007	147.40	9.05	ND ND	138.35	<1.00	<3.00	<1.00	<6.00	<3.00	<5.00	<100	<100	<100
	1/8/2008	147.40	8.39	ND	139.01	<1.00	<3.00	<1.00	<6.00	<3.00	<5.00	<100	<100	<100
	6/20/2008	147.40	9.03	ND	138.37	<1.00	<3.00	<1.00	<4.00	<3.00	<5.00	<100	<100	<100
	12/18/2008	147.40	8.15	ND	139.25	<1.00	<3.00	<1.00	<6.00	<3.00	<5.00	<100	<100	<100
	6/22/2009	147.40	8.41	ND	138.99	<1.00	<3.00	<1.00	<6.00	<3.00	<5.00	<100	<100	<100
	12/23/2009	147.40	8.53	ND	138.87	<1.00	< 3.00	<1.00	< 6.00	<3.00	< 5.00	<100	<100	<100
	6/11/2010							<1.00	< 6.00			<100	<100	<100

	er, MA						De	тестеа т С	31 ouna wa	ici				
Well No. (GW Class) Screen Interval (ft.)	Sampling Date	Top of Casing Elevation (ft)	Depth to Water	Depth to LNAPL (ft)	Ground Water Elevation (ft)	Benzene (μg/l)	Toluene (μg/l)	Ethyl- benzene (μg/l)	Total Xylenes (μg/l)	MTBE (μg/l)	Naph- thalene (μg/l)	C ₅ -C ₈ Aliphatics (µg/l)	C ₉ -C ₁₂ Aliphatics (µg/l)	C ₉ -C ₁₀ Aromatics (µg/l)
	1			W-1		5	1,000	700	10,000	70	140	300	700	200
MCP Metho	d 1 Standards			W-2		2,000	50,000	20,000	3,000	50,000	700	3,000	5,000	4,000
			G	W-3		10,000	40,000	5,000	5,000	50,000	20,000	50,000	50,000	50,000
OW-10	4/3/1997	146.59	6.44	ND	140.15	19	2.2	20	21	72	NA	NA	NA	NA
(GW-1,3)	7/21/1997	146.59	8.64	ND	137.95	34	5	46	8	340	NA	NA	NA	NA
	10/22/1997	146.59	9.58	ND	137.01	230	420	240	890	12,000	NA	NA	NA	NA
Total depth	5/4/1998	146.59	7.09	ND	139.50	21	<1	35	3	570	NA	NA	NA	NA
= 17.5'	7/30/1998	146.59	7.85	ND	138.74	60	90	90	380	1,500	NA	NA	NA	NA
	9/11/1998	146.59	9.70	ND	136.89	40	7	50	95	640	NA	NA	NA	NA
	10/26/1998	146.59	7.87	ND	138.72	120	39	98	240	880	NA	NA	NA	NA
	11/13/1998 12/17/1998	146.59 146.59	8.01	ND	138.58	74 55	19	73	200 99	630 390	NA	NA	NA NA	NA
	1/6/1999	146.59	8.28 7.68	ND ND	138.31 138.91	100	6 <20	51 110	170	840	NA NA	NA NA	NA NA	NA NA
	2/9/1999	146.59	7.15	ND	139.44	28	3	22	25	470	NA NA	NA NA	NA NA	NA
	3/29/1999	146.59	6.96	ND	139.63	61	89	57	90	630	NA	NA	NA NA	NA
	6/24/1999	146.59	8.13	ND	138.46	122	59	133	389	938	<25	<500	<500	<500
	11/4/1999	146.59	7.52	ND	139.07	23.3	<5.0	18.5	<15	155	<5.0	<100	<100	110
	1/3/2000	146.59	7.76	ND	138.83	39	< 5.0	25.6	<15	204	< 5.0	<100	<100	110
	2/16/2000	146.59	7.32	ND	139.27	7.5	< 5.0	< 5.0	<15	67.9	< 5.0	<100	<100	<100
	4/14/2000	146.59	7.39	ND	139.20	41.7	57.6	35.4	76.2	266	< 5.0	<100	<100	110
	8/21/2000	146.59	8.05	ND	138.54	107	614	171	671	2,610	<25	< 500	590	840
	11/20/2000	146.59	7.51	ND	139.08	194	1,410	320	2,010	14,900	83.8	< 50	1,420	1,580
	2/26/2001	146.59	7.33	ND	139.26	16	< 5.0	21.5	39.9	556	6.3	<100	<100	<100
	7/16/2001	146.59	8.16	ND	138.43	< 50	< 50	< 50	<100	749	< 50	< 500	< 500	< 500
	10/2/2002	146.31	8.92	ND	137.39	< 2.0	< 2.0	<2.0	<4.0	110	<3.0	< 50	<50	< 50
	11/13/2003	146.31	7.71	ND	138.60	<2.0	< 2.0	<2.0	<4.0	26.7	<3.0	< 50	<50	< 50
	5/18/2004	146.31	7.55	ND	138.76	<14.3	<3.0	2.1	6.2	336	<5.0	<100	<100	<100
	11/17/2004	146.31	NG	NG	NA	<1.00	<3.0	<1.0	<6.0	193	<5.0	<100	<100	<100
	6/2/2005	146.31	7.55	ND ND	138.76	6.4 <1.00	3.2 <3.00	3.8	10.5	216	<5.0	<100 <100	<100	<100
	12/15/2005 12/14/2006	146.31 146.31	7.30 7.65	ND ND	139.01 138.66	<1.00	<3.00	6.13	<4.00 30.4	57.7 48.7	<5.00 <5.00	<100	<100 140	65.9 276
	7/10/2007	146.31	7.89	ND	138.42	3.74	<3.00	7.0	14.78	11.4	<5.00	186	257	415
	10/17/2007	146.31	8.58	ND	137.73	25.4	5.84	120	16.48	20.5	<5.00	865	621	343
	1/8/2008	146.31	7.24	ND	137.73	1.36	13.5	8.85	68.8	8.97	<5.00	<100	<100	227
	3/21/2008	146.31	6.43	ND	139.88	<1.00	<3.00	<1.00	<6.00	<3.00	<5.00	<100	<100	<100
	6/20/2008	146.31	7.67	ND	138.64	2.37	<3.00	7.88	10.59	<3.00	< 5.00	<100	<100	<100
	9/25/2008	146.31	7.70	ND	138.61	10.3	<3.00	28.0	17.57	4.17	< 5.00	147	<100	132
	12/18/2008	146.31	6.80	ND	139.51	<1.00	< 3.00	4.16	23.44	< 3.00	< 5.00	<100	<100	<100
	3/10/2009	146.31	6.61	ND	139.70	<1.00	<3.00	<1.00	< 6.00	<3.00	< 5.00	<100	<100	<100
	6/22/2009	146.31	7.00	ND	139.31	1.88	< 3.00	10.2	2.82	< 3.00	< 5.00	<100	<100	59.4
	9/17/2009	146.31	7.40	ND	138.91	<1.00	< 3.00	<1.00	< 6.00	<3.00	< 5.00	<100	<100	<100
	12/23/2009	146.31	7.35	ND	138.96	<1.00	< 3.00	2.55	9.37	<3.00	< 5.00	<100	<100	87.9
	4/21/2010	146.31	7.16	ND	139.15	<1.00	<3.00	<1.00	<6.00	<3.00	<5.00	<100	<100	<100
	6/11/2010	146.31	7.81	ND	138.50	5.20	<3.00	29.0	<6.00	<3.00	<5.00	122	<100	114
	6/28/2011	146.31	7.25	ND ND	139.06	<5.0	<5.0	<5.0	<10.0	<5.0	<5.0	<75.0	<25.0	<25.0
	3/8/2012 6/20/2012	146.31	7.21	ND ND	139.10 138.50	<5.0 <5.0	<5.0 <5.0	<5.0 <5.0	<10.0	<5.0 <5.0	<5.0 <5.0	<75.0 <75.0	<25.0 <25.0	<25.0 <25.0
	9/10/2012	146.31 146.31	6.60	ND ND	139.71	<5.0	<5.0	<5.0	<15.0	<5.0	<5.0	5.0<br <75.0	<25.0	<25.0
	12/12/2012	146.31	8.90	ND	137.41	<5.0	<5.0	<5.0	<15.0	<5.0	<5.0	<75.0	<25.0	<25.0
	6/19/2013	146.31	7.05	ND	137.41	<5.0	<5.0	<5.0	<15.0	<5.0	<5.0	<75.0	<25.0	<25.0
	12/16/2013	146.31	8.11	ND	139.20	<5.0	<5.0	<5.0	<15.0	<5.0	<5.0	<75.0	<25.0	<25.0
	3/31/2015	146.31	6.64	ND	139.67	<1.0	<1.0	<1.0	<3.0	<1.0	<5.0	<100	<100	<100
OW-11	11/20/2000	145.88	9.67	ND	136.21	14.6	<5.0	<5.0	<10	4,320	<5.0	<50	<50	88.2
(GW-1,3)	5/18/2004	147.24	8.48	ND	138.76	<1.0	<3.0	<1.0	< 6.0	14.1	< 5.0	<100	<100	<100
5-20'	12/14/2006	147.24	3.53	ND	143.71	<1.00	< 3.00	<1.00	< 6.00	<3.00	< 5.00	<100	<100	<100
	DESTROYED										_		1	

95-214880 Global Companies LLC Mobil Station No. 1436 309 Lowell Street Table 2 Concentrations of Volatile Petroleum Hydrocarbons (VPH) Detected in Groundwater Andover, MA Well No. Top of Casing Depth Ground C5-C8 C9-C12 (GW Class) Depth to Water Ethyl-Total Naph-C9-C10 Sampling Dat Screen Interval (ft.) Elevation (ft) Water LNAPL (ft) Elevation (ft) Toluen benzene (μg/l) Xylenes (μg/l) MTBE Aliphatics (μg/l) Aliphatics (µg/l) Aromatics (µg/l) (ft) (μg/l) (μg/l) (μg/l) $(\mu g/l)$ 1,000 50,000 700 20,000 10,000 3,000 300 3,000 700 5,000 200 4,000 70 50,000 5 2,000 MCP Method 1 Standards 10,000 20,000 50,000 34.6 276 <50 OW-12 34.9 120 147 3,420 <50 <50 987 754 (GW-1,3) 11/13/2003 ND 4.8 458 167 147.64 8.95 138.69 2.8 26.9 8.66 7.98 7.7 5-18 147.64 147.64 ND ND 138.98 139.66 1.20 82.3 <3.00 493 2.73 1,229 **290** <3.00 138 **646** <100 <1,000 <100 **3,460** 82.6 <1.00 6/27/2006 147.64 ND 139.94 < 1.00 < 3.00 <4.00 < 3.00 < 5.00 <100 <100 <100 12/14/2006 147.64 147.64 138.89 138.40 <1.00 <1.00 <3.00 <3.00 <1.00 12.3 <6.00 <6.00 <3.00 <3.00 <5.00 <5.00 <100 <100 131 117 1/8/2008 147.64 8.53 ND 139.11 <1.00 < 3.00 <1.00 < 6.00 < 3.00 < 5.00 <100 <100 248 6/20/2008 6/22/2009 147.64 147.64 ND ND 138.72 139.39 1.23 <3.00 52.9 2.89 4.33 3.18 <5.00 593 **1,060** 910 1,750 < 3.00 6.83 12/23/2009 6/10/2010 8.51 9.12 ND ND 139.13 138.52 3.49 11.6 <6.00 6.94 8.13 6.20 <0.5 <0.5 1,600 1,330 147.64 < 3.00 < 3.00 588 5.02 147.64 603 9/30/2010 147.64 10.22 ND 137.42 15.6 <10.0 <10.0 <30.0 <10 32.3 304 884 400 12/29/2010 3/31/2011 6/28/2011 <5.00 <5.00 <5.0 <5.00 17.7 13.1 <25 459 328 147.64 147.64 <5.00 <5.00 <15.00 <5.00 <5.00 <5.00 8.93 ND 138.71 < 5.00 139.62 244 147.64 ND < 5.0 <10.0 < 5.0 136 9/28/2011 147.64 147.64 8.80 ND 138.84 < 5.0 <5.0 < 5.0 <10.0 < 5.0 15.2 163 291 142 <5.0 <5.0 <5.0 <5.0 <5.0 12/22/2011 3/8/2012 ND ND 139.13 139.16 <5.0 <10.0 <5.0 <5.0 19.0 166 403 163 172 138 < 5.0 147.64 <10.0 16.8 6/20/2012 9/10/2012 147.64 147.64 9.06 ND 138.58 <5.0 < 5.0 <15.0 < 5.0 35.9 233 217 418 137.99 < 5.0 ND < 5.0 < 5.0 <15.0 < 5.0 9.65 < 5.0 <25 105 12/12/2012 147.64 9.17 ND 138.47 < 5.0 < 5.0 < 5.0 <15.0 < 5.0 < 5.0 84.1 8.07 ND 139.57 <5.0 <15.0 19.8 97.9 101 147.64 6/19/2013 147.64 ND 139.39 < 5.0 < 5.0 <15.0 18.4 107 118 12/16/2013 3/26/2014 6/30/2014 ND ND ND <5.0 <5.0 <1.0 <5.0 <5.0 <1.0 <5.0 <5.0 <5.0 <75 <75 <100 <25 <25 <100 <25 <25 110 147.64 147.64 <5.0 <5.0 9.45 138.19 < 5.0 <15.0 8.32 9.30 139.32 138.34 <5.0 <1.0 <15.0 147.64 <2.0 ND ND ND <2.0 <3.0 <3.0 147.64 147.64 <1.0 <1.0 <1.0 <1.0 <5.0 <5.0 <100 110 9/11/2014 9.60 138.04 <1.0 <100 110 139.68 139.84 <100 12/8/2014 3/12/2015 7.96 7.80 <1.0 <1.0 <100 <100 147.64 <1.0 <1.0 <1.0 < 5.0 <100 <100 9/17/2015 12/16/2015 147.64 147.64 ND ND 138.04 138.39 <1.0 <1.0 <5.0 <5.0 150 <100 9.60 <100 <100 <1.0 3/8/2016 147.64 8.71 ND 138.93 <1.0 <1.0 < 3.0 <1.0 < 5.0 <100 <100 <100 6/7/2016 8.98 ND 138.66 <1.0 <100 160 <100 137.87 9/26/2016 147.64 9.77 ND <1.0 <1.0 <1.0 < 3.0 <1.0 < 5.0 <100 <100 <100 12/20/2016 147.64 147.64 8.93 ND 138.71 <1.0 <1.0 <1.0 <1.0 <1.0 < 5.0 <100 <100 <100 <100 <100 139.40 <1.0 <5.0 6/28/2017 147.64 8.70 ND 138.94 <1.0 <1.0 <1.0 < 2.0 <1.0 < 5.0 <100 <100 <100 9/19/2017 147.64 147.64 9.40 ND 138.24 <1.0 2.1 < 5.0 <100 <100 130 12/27/2017 3/19/2018 9.14 7.80 ND ND 138.50 139.84 <1.0 <1.0 <5.0 <5.0 <100 <100 <100 <100 <1.0 <1.0 147.64 <1.0 <1.0 <100 <100 6/6/2018 12/3/2018 147.64 8.94 147.64 7.48 ND 138.70 <1.0 <1.0 <1.0 <3.0 <1.0 < 5.0 <100 <100 <100 7.48 ND 140.16 <1.0 <1.0 <1.0 <3.0 <1.0 < 5.0 <100 <100 <100

95-214880 Table 2 Global Companies I Concentrations of Volatile Petroleum Hydrocarbons (VPH) Mobil Station No. 1436 309 Lowell Street Detected in Groundwater Well No. Top of Depth Ground (GW Class) Casing Depth to Water Ethyl-Total Naph-C9-C12 C9-C10 ampling Dat Screen Interval (ft.) LNAPL (ft) Toluen Xylenes (μg/l) MTBF Aliphatics (μg/l) Aliphatic (μg/l) Aromatics (µg/l) (ft) (µg/l) (μg/l) (μg/l) (μg/l) $(\mu g/l)$ 1,000 50,000 10,000 700 20,000 70 50,000 300 3,000 700 5,000 200 4,000 MCP Method 1 Standards 10,000 20,000 50,000 58.4 OW-13 206 933 J < 1.00 1,130 <2,500 (GW-1,3) 6/20/2005 147.67 8.40 ND 139.27 688 286 6,840 5-20 12/16/2005 147.67 147.67 ND ND 140.02 139.16 <1.00 <1.00 <3.00 64.0 58.6 <3.00 3.77 27.0 15.8 166 <100 **559** 1230 590 998 518 2,000 12/14/2006 147.67 8.64 ND 139.03 <1.00 < 3.00 258.9 < 3.00 104 3,970 7/11/2007 10/17/2007 9.18 9.69 <1.00 <1.00 3.95 <3.00 205 <1.00 844 <6.00 <3.00 <3.00 **467** <100 **4,480** <100 4,570 1/8/2008 147.67 9.37 ND 138.30 <1.00 6.05 305 980 < 3.00 147 761 <100 8,460 3/21/2008 ND 140.22 <1.00 647 84.7 3,020 /21/2008 (Dup 147.67 3.16 < 3.00 3,090 6/20/2008 9/25/2008 892 704 147.67 8.75 ND 138.92 2.07 2.82 4.62 93.1 421 2.540 4.370 8.84 ND 138.83 3.10 <3.00 223 271 < 3.00 469 673 4,160 6,340 89.6 < 500 12/23/2008 147.67 8.17 ND 139.50 < 1.00 < 3.00 1,107 < 3.00 116 682 <3.00 3/10/2009 6/22/2009 ND ND 1.36 50.8 207 191.9 646 <3.00 7.64 310 866 1,380 5,160 147.67 140.02 26.3 89.2 139.73 9/17/2009 147.67 NG ND NA <1.00 < 3.00 5.82 17.47 < 3.00 5.47 <100 <100 136 ND ND ND 550 92.8 300.4 12/23/2009 147.67 8.30 139.37 2.13 <3.00 <3.00 161 4.94 75.9 1,040 1,580 5.260 41.4 16.0 47.1 4/21/2010 138.87 1.60 6/10/2010 147.67 8.80 < 3.00 118 < 3.00 622 712 2,360 <15.0 104.0 147.67 10.15 ND 137.52 <5.0 c5.0 < 5.0 137.91 < 5.00 839 458 147.67 ND < 5.00 48 < 5.00 164 12/29/2010 22.0 3/31/2011 147.67 7.85 ND 139.82 < 5.00 < 5.00 99 303.5 < 5.00 28.4 290 1,510 896 20.6 8.11 ND 139.56 < 5.0 <5.0 29.8 51.1 305 594 6/28/2011 45.7 341 1310 9/28/2011 147.67 8.66 ND 139.01 <5.0 83.8 180.1 2,010 ND ND ND <5.0 <5.0 <5.0 <15.0 217.3 151.8 12/22/2011 3/8/2012 147.67 147.67 <5.0 76.7 69.3 8.18 139.49 <5.0 < 5.0 < 5.0 8.32 139.35 138.78 28.5 44.5 1,210 982 383 6/20/2012 147.67 < 5.0 764 1,780 ND ND ND <5.0 <5.0 55.3 110.7 529 **916** 9/10/2012 12/12/2012 9.42 138.25 <5.0 139 181 649 1,320 138.65 < 5.0 < 5.0 29.8 22.8 65.5 3/27/2013 147.67 7.85 139.82 < 5.0 < 5.0 193.4 < 5.0 187 892 <5.0 <5.0 5.9 <5.0 <10.0 <15.0 8.02 ND 80.3 247 6/19/2013 12/16/2013 138.39 <25 328 3/26/2014 147.67 8.16 ND 139.51 < 5.0 < 5.0 25.7 46.3 154 505 ND 137.25 42.0 10 10.42 <2.0 <200 <100 290 9/11/2014 147.67 9.52 ND 138.15 <1.0 <1.0 8.0 <1.0 < 5.0 220 147.67 ND 139.88 <1.0 <1.0 <1.0 18.9 <1.0 13 <100 460 <1.0 157 <1.0 320 3/31/2015 147.67 9/17/2015 147.67 9.50 ND 138.17 <1.0 <1.0 2.8 4.9 <1.0 < 5.0 <100 <100 130 12/16/2015 147.67 9.15 ND 138.52 <1.0 <1.0 6.6 < 5.0 <100 <100 340 ND ND 139.12 138.81 23.4 24.9 <1.0 <1.0 6.8 <1.0 14 6/7/2016 147.67 <1.0 <1.0 6.1 820 9/26/2016 12/20/2016 5.1 9.70 ND 137 97 <1.0 <1.0 3.2 <1.0 < 5.0 <100 <100 170 520 138.88 147.67 ND < 5.0 < 5.0 < 5.0 65 < 500 1,400 3/28/2017 147.67 ND 139.56 <1.0 <1.0 39.5 190 <100 700 270 8 52 ND 139.15 <2.0 2.0 14 23.3 2.0 12 200 1200 9/19/2017 147.67 9.30 ND 138.37 < 2.0 <2.0 14 <2.0 <200 <200 870 <1.0 2.2 <1.0 12/27/2017 3/19/2018 9.04 ND 138.63 <1.0 4.1 8.5 <3.0 <1.0 <1.0 < 5.0 <100 160 130 160 147.67 147.67 8.06 140 6/6/2018 ND 138.88 <1.0 3.4 4.6 <1.0 < 5.0 <100 <100 220 12/3/2018 7.15 ND 140.52 <1.0 <1.0 1.4 2.9 <1.0 < 5.0 <100 190 160 147.67 OW-14 11/19/2004 148.01 NG NG NA < 1.00 < 3.0 <1.0 < 6.0 < 3.0 < 5.0 <100 <100 <100 (GW-1,3) 6/2/2005 12/16/2005 148.01 148.01 ND ND <3.00 <3.00 <6.0 <4.00 <3.00 <100 <100 138.72 <1.00 <1.00 <5.0 <100 <100 139.21 < 1.00 <100 6/27/2006 148.01 8.61 ND 139.40 < 1.00 < 3.00 < 1.00 <4.00 < 3.00 < 5.00 <100 <100 <100 ND ND 138.10 <3.00 <1.00 < 6.00 < 3.00 < 5.00 <100 <1.00 <100 <100 10/17/2007 148.01 10.47 137.54 < 1.00 <3.00 <1.00 < 6.00 < 3.00 < 5.00 <100 <100 <100 ND ND 1/8/2008 148.01 9.28 138.73 <1.00 <3.00 <1.00 < 6.00 <3.00 < 5.00 <100 <100 <100 148.01 139.55 <3.00 <1.00 < 6.00 3/21/2008 <1.00 < 3.00 < 5.00 <100 <100 <100 6/20/2008 148.01 9.70 ND 138.31 < 1.00 < 3.00 <1.00 < 4.00 < 3.00 < 5.00 <100 <100 <100 <3.00 9/25/2008 148.01 9.80 ND 138.21 <1.00 <3.00 <1.00 <6.00 < 5.00 <100 <100 <100 12/18/2008 148.01 8.83 ND 139.18 < 1.00 < 3.00 <1.00 < 6.00 < 3.00 < 5.00 <100 <100 <100 3/10/2009 148.01 8.71 ND 139.30 <1.00 <3.00 <1.00 < 6.00 < 3.00 < 5.00 <100 <100 <100 6/22/2009 9/17/2009 9.12 9.51 ND ND 138.89 138.50 <5.00 <5.00 148.01 <3.00 <1.00 <3.00 <100 <1.00 <6.00 148.01 <1.00 < 6.00 < 3.00 <1.00 < 3.00 <100 <100 <100 12/23/2009 148.01 9.22 ND 138.79 <1.00 <3.00 <1.00 < 6.00 < 3.00 < 5.00 <100 <100 <100 <6.00 <1.00 <1.00 6/11/2010 148.01 9.98 ND 138.03 <1.00 < 3.00 <1.00 < 6.00 < 3.00 < 5.00 <100 <100 <100 MW-1 <1.0 <1.0 <1.0 NA NA (GW-1,3) 9/11/1998 147.59 8.01 ND 139.58 <1.0 <1.0 <1.0 NA NA NA 5-15 10/26/1998 147.59 ND <1.0 NA NA NA NA 11/13/1998 147.59 7.88 ND 139.71 <1.0 <1.0 <1.0 <3 <1.0 NA NA NA NA 12/17/1998 147.59 ND 139.87 <1.0 <1.0 <1.0 <1.0 NA NA NA NA 1/6/1999 2/9/1999 7.65 ND ND 139.94 <1.0 <1.0 <1.0 NA NA NA 141.24 <1.0 <1.0 3/29/1999 147.59 5.65 ND 141.94 <1.0 <1.0 50 NA NA NA NA ND ND < 5.0 <100 <100 <100 1/22/2002 147.59 8.93 138.66 < 5.0 < 5.0 < 5.0 <10 24.3 < 5.0 < 50 < 50 < 50 ND ND NS NS NS NS 5/10/2003 147.21 6.33 140.88 <1.0 NS NS NS NS 11/13/2003 138.54 <1.0 <1.0 <1.0 <1.0 6/28/2011 147.21 6.80 ND 140.41 < 5.0 < 5.0 < 5.0 <10.0 < 5.0 < 5.0 <75.0 <25.0 <25.0 147.21 ND 140.61 <5.0 6.78 <1.0 < 5.0 6/30/2014 147.21 7.61 ND 139.60 <1.0 <1.0 < 2.0 <1.0 <100 <100 <100 9/11/2014 147.21 ND 139.24 1.8 <1.0 <1.0 <2.0 <1.0 < 5.0 <100 <100 <100 12/8/2014 147.21 6.19 ND 141.02 <1.0 <3.0 <100 <1.0 <100 9/17/2015 147.21 8.00 ND 139.21 <1.0 <1.0 <1.0 < 3.0 <1.0 < 5.0 <100 <100 <100 12/16/2015 147.21 7.90 ND 139.31 <1.0 <1.0 < 3.0 <1.0 15 <100 <100 <100 140.23 139.71 <1.0 6/7/2016 147.21 7.50 ND <1.0 <1.0 <1.0 <3.0 <1.0 <5.0 <100 <100 <100 9/26/2016 147.21 8.30 ND 138.91 <1.0 <1.0 <3.0 <1.0 <5.0 <100 <100 12/20/2016 139.88 <1.0 <1.0 <5.0 <100 <100 <100 <1.0 <1.0 3/28/2017 147.21 6.41 140.80 <1.0 <1.0 < 5.0 <100 <100 <100

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6/28/2017

9/19/2017

3/19/2018

12/3/2018

147.21

147.21

147.21

147.21 6.26

7.03

7.81

5.49

ND

ND

ND

ND

ND

140.18

139.40

140.95

141.72

<1.0

<1.0

<1.0

<1.0

<1.0

95-214880 Global Companies LLC Table 2 Concentrations of Volatile Petroleum Hydrocarbons (VPH) Mobil Station No. 1436 309 Lowell Street Detected in Groundwater Well No. Top of Depth Ground C5-C8 (GW Class) Casing Depth to Water Ethyl-Total Naph-C9-C12 C9-C10 Sampling Dat Screen Interval (ft.) Water LNAPL (ft) Toluen Xylenes (μg/l) MTBE Aliphatics (μg/l) Aliphatic (μg/l) Aromatics (µg/l) (ft) (ft) (µg/l) (μg/l) (µg/l) (µg/l) $(\mu g/l)$ 1,000 50,000 10,000 700 20,000 70 50,000 300 3,000 700 5,000 200 4,000 2,000 MCP Method 1 Standards 10,000 5,000 50,000 20,000 50,000 MW.2 4/3/1997 821 3,790 381 19,300 NA NA NΑ (GW-1,2,3) NA 7/21/1997 147.95 8.91 ND 139.04 1,100 4,400 480 3,600 100,000 NA NA NA 5-15 10/22/1997 5/4/1998 147.95 147.95 10.08 7.58 ND ND 137.87 140.37 2,600 1,400 4 900 810 900 5,900 6,900 190,000 14,000 NA NA NA NA NA NA NA NA 320 5/20/1998 147.95 NG NG NA 880 3,300 2,600 80,000 NA NA NA NA 147.95 147.95 7.97 8.65 139.98 139.30 890 460 4,700 4,200 4,600 4,000 2,500 NA NA NA NA NA NA NA NA 210 10/26/1998 147.95 8.37 ND 139.58 1,800 250 2,000 5,500 NA NA NA NA 11/13/1998 147.95 147.95 ND 280 540 2,200 NA NA NA 12/17/1998 8.69 139.26 3,900 1/6/1999 147.95 ND 139.71 <2.000 3,300 400 3.400 34,000 NA NA NA NA 2/9/1999 6.90 ND 141.05 NA NA NA NA 1,500 640 5,800 3/29/1999 147.95 6.72 ND 141.23 3,500 640 4,500 **4,400** NA NA NA 6/24/1999 11/4/1999 147.95 147.95 ND ND 139.70 140.47 **513** <1.0 **280** <5.0 **4,000** <100 **6,100** 5,890 1,110 10,300 9,000 7,160 1/3/2000 147.95 8.37 ND 139.58 1,580 6,430 890 5,220 60,100 240 <2500 5400 11300 2/16/2000 147.95 7.83 7.54 ND ND 140.12 1,630 1,100 8,130 1,030 6,090 4,400 220 <2500 7700 10200 2/25/2000 1,320 7,980 8,240 4/14/2000 147.95 7.40 ND 140.55 1,500 11,600 22,000 310 < 5.000 8,800 9,400 147.95 147.95 139.60 140.35 8,860 13,800 1,300 <u>8,240</u> 29,000 2,230 <u>14,970</u> 40,700 8.35 ND 1,330 340 <5,000 11,800 646 11/20/2000 7.60 ND 2,410 < 5,000 8,130 21,400 6,390 9,500 2/26/2001 147.95 7.67 ND 140.28 658 5,220 1.010 11,000 251 2,000 9,000 7,900 7/16/2001 2,910 1,830 ND ND 140.22 139.25 11,900 13,300 439 <2,500 11,200 14,200 7.73 8.70 61,500 22,900 147.95 18,820 1.420 10,600 17,500 55,600 16,600 7,820 11,000 5/7/2002 10/2/2002 147.95 147.55 ND ND 140.29 138.12 588 205 51.6 9,840 2,360 1,700 900 12,260 5,780 6,620 6,850 454 288 511 7,550 1,390 7,350 825 147.55 3,440 5/10/2003 7.20 ND 140.35 8,110 1,140 <50 11/13/2003 2,910 159 309 186 456 1,990 147.55 147.55 ND ND 139.26 139.60 19.5 9,750 1.6 7,550 11/18/2004 147.55 NG NG NA 1.4 408 324 2,868 98.4 144 2,260 3,860 4,650 ND ND 131 33.9 6/20/2005 12/16/2005 139.59 < 1.00 381 2,369 231 <1,000 4,110 85.9 < 1.00 6/27/2006 147.55 6.82 ND 140.73 < 1.00 < 3.00 10.7 32.97 58.3 5.74 <100 277 12/14/2006 8.02 ND 88.8 < 3.00 2.66 6.94 257.5 257.9 7/11/2007 147.55 8.42 ND 139.13 < 1.00 5.00 79.1 < 3.00 39.5 1,400 2,630 3,010 10/17/2007 147.55 9.06 ND 138.49 <1.00 4.96 48.8 93.6 < 3.00 768 1,530 1,120 1,180 1/8/2008 147.55 7.76 ND 139.79 <1.00 6.09 387.6 < 3.00 50.9 < 500 2,910 3/21/2008 147.55 6.85 ND 140.70 <1.00 < 3.00 <1.00 < 6.00 < 3.00 < 5.00 <100 <100 6/20/2008 9/25/2008 147.55 8.19 ND ND 139.36 139.37 6.52 <3.00 86.0 52.0 243.9 112.8 11.5 <3.00 1,350 786 1,220 2.690 1,900 8.18 25-Sep-08 Dup 12/23/2008 3/10/2009 1,780 147.55 8.18 ND 139.37 5.94 < 3.00 50.7 114.6 < 3.00 28.1 803 <500 147.55 147.55 7.50 7.01 140.05 140.54 3.71 56.1 23.3 3.74 36.4 14.9 566 **750** 2,950 1,290 ND 218.2 1,060 597 ND 1.89 66.7 3/10/2009 Dup 147.55 7.01 ND 140.54 1.96 < 3.00 23.3 66.5 < 3.00 14.9 609 700 1,220 140.23 1,040 418 6/22/2009 9/17/2009 7.32 7.80 118.2 6.32 3.52 29 12.5 1,520 ND 1.69 147.55 < 3.00 16.4 44.7 7.80 7.70 8.51 44.6 83.3 7.54 13.5 16.7 5.68 431 778 323 <500 <500 174 9/17/2009 Dup 147.55 ND ND 139.75 139.85 1.54 2.06 <3.00 16.2 3.42 <3.00 670 1,940 569 147.55 < 3.00 20.2 9.32 12/23/2009 147.55 139.04 4/21/2010 ND 1.63 < 3.00 < 3.00 8.51 8.25 9.55 ND ND ND 139.04 139.30 <3.00 7.93 53.3 <3.00 4.14 5.92 16.9 341 1,350 566 1,800 4/21/2010 Dup 147.55 147.55 9.84 19.5 17.0 6/10/2010 9/30/2010 24.1 147.55 138.00 <10.0 <10.0 69.4 <10.0 481 1,200 600 12/29/2010 3/31/2011 139.53 140.33 ND < 5.00 <15.00 < 5.00 < 5.00 < 5.00 7.22 6/28/2011 147.55 ND 140.02 < 5.0 26.6 14.6 38.1 307 442 219 9/28/2011 7.97 ND 139.58 <5.0 20.4 67.1 15.0 313 709 431 < 5.0 356 534 12/22/2011 147.55 ND 139.78 < 5.0 10.2 22.6 < 5.0 8.9 263 <5.0 <5.0 3/8/2012 147.55 7.66 ND 139.89 <5.0 174 542 390 916 147.55 9/10/2012 147.55 8.67 ND 138.88 < 5.0 < 5.0 24.3 57.7 < 5.0 27.2 447 1,100 1,350 12/12/2012 147.55 8.49 ND 139.06 < 5.0 <5.0 6.6 8.0 347 406 3/27/2013 13.16 ND 134.39 < 5.0 <5.0 <15.0 < 5.0 < 5.0 30.4 147.55 215 <75 6/19/2013 147.55 ND 140.20 < 5.0 < 5.0 8.1 18.8 < 5.0 10.3 336 147.55 147.55 8.63 7.43 <5.0 <5.0 <15.0 <15.0 <5.0 5.81 12/16/2013 ND 138.92 <5.0 34.8 36.4 7.04 124 200 ND 3/26/2014 140.12 < 5.0 < 5.0 142 Destroyed April 2014 ND <1.0 < 5.0 <100 <1.0 <1.0 <2.0 <1.0 (GW-1,2,3) 9/11/2014 NM ND NM <1.0 <1.0 <1.0 < 2.0 <1.0 < 5.0 <100 <100 <100 12/8/2014 NM 7.66 ND NM <1.0 <1.0 < 5.0 <100 <100 <100 3/31/2015 7.40 ND NM <1.0 <3.0 <100 <100 <100 9/17/2015 NM 9.2 ND NM <1.0 <1.0 < 5.0 <100 <100 <100 ND ND <1.0 <1.0 NM 9.05 NM <1.0 <1.0 <3.0 <1.0 < 5.0 <100 <100 <100 NM <100 8.44 <1.0 < 5.0 <100 3/8/2016 NM <1.0 < 3.0 <1.0 <100 6/7/2016 NM 8.75 ND NM <1.0 <1.0 <1.0 < 3.0 <1.0 < 5.0 <100 <100 <100 9/26/2016 12/20/2016 ND ND NM <100 <100 <100 <1.0 < 5.0 <1.0 NM 3/28/2017 NM 7.94 ND <1.0 <1.0 < 5.0 <100 <100 <100 6/28/2017 8.40 ND NM <1.0 <1.0 <100 <100 <100 NM 9/19/2017 NM 9.22 ND <1.0 <1.0 <1.0 <1.0 < 5.0 <100 <100 <100 NM NM <1.0 <100 <100 12/27/2017 8.91 ND NM <1.0 <1.0 <1.0 < 5.0 <100 <100 3/19/2018 ND NM <1.0 <5.0 6/6/2018 NM 8.67 ND NM <1.0 <1.0 <1.0 < 3.0 <1.0 < 5.0 <100 <100 <100 NM 7.17 ND NM <1.0 <1.0 <1.0 1.8 <1.0 <5.0 <100 <100 <100

	ell Street er, MA						De	tected in (Froundwat	er				
Well No. (GW Class) Screen Interval (ft.)	Sampling Date	Top of Casing Elevation (ft)	Depth to Water (ft)	Depth to LNAPL (ft)	Ground Water Elevation (ft)	Benzene (μg/l)	Toluene (µg/l)	Ethyl- benzene (μg/l)	Total Xylenes (μg/l)	MTBE (μg/l)	Naph- thalene (µg/l)	C ₅ -C ₈ Aliphatics (µg/l)	C ₉ -C ₁₂ Aliphatics (µg/l)	C ₉ -C ₁₀ Aromatics (µg/l)
				W-1		5	1,000	700	10,000	70	140	300	700	200
MCP Method	d 1 Standards			W-2 W-3		2,000	50,000	20,000	3,000	50,000	700	3,000	5,000	4,000
MW-2D	11/20/2000	148.24	7.95	W-3 ND	140.29	10,000 18.3	40,000 245	5,000 407	5,000 2,830	50,000 697	20,000 193	50,000 1,450	50,000 3,170	50,000 4,250
(GW-1,3)	2/26/2001	148.24	8.04	ND	140.20	<1.0	<5.0	9	34.7	8.2	9.1	380	220	220
25-35'	7/16/2001	148.24	9.11	ND	139.13	<5.0	< 5.0	<5.0	7.3	52.4	6.7	62.4	<50	68.3
	1/22/2002	148.24	8.98	ND	139.26	< 5.0	< 5.0	< 5.0	9.5	< 5.0	< 5.0	189	<50	113
	5/7/2002	148.24	8.05	ND	140.19	< 5.0	<5.0	< 5.0	<10	<5.0	<5.0	<50	<50	<50
	10/2/2002	147.84 147.84	9.59 7.71	ND ND	138.25 140.13	<2.0	<2.0	<2.0	12.8	67 <2.0	<3.0	<50 139	<50 <50	<50 143
	5/10/2003	147.84	7.71	ND	140.13	<2.0	<2.0	<2.0	2	<2.0	<3.0	<50	<50	<50
	11/13/2003	147.84	8.66	ND	138.88	<2.0	<2.0	<2.0	<4.0	4.7	<3.0	<50	<50	<50
	5/18/2004	147.84	8.32	ND	139.52	<1.00	<3.0	<1.0	< 6.0	3.3	< 5.0	<100	<100	<100
	11/18/2004	147.84	NG	NG	NA	<1.00	<3.0	<1.0	<6.0	<3.0	<5.0	<100	<100	<100
10V 1	1/21/1007	140.02	0.20	ND	120.64	100	50	0.2	770	0/0	27.4	N7.4	27.4	27.4
MW-3 (GW-1,2,3)	1/31/1997	148.02 148.02	8.38 10.60	ND ND	139.64 137.42	122	59 <1.0	93	770	960 290	NA NA	NA NA	NA NA	NA NA
(GW-1,2,3) 5-15'	5/4/1998	148.02	8.18	ND ND	137.42	140	370	<1.0 180	1,500	1,000	NA NA	NA NA	NA NA	NA NA
	7/30/1998	148.02	8.94	ND	139.08	220	110	16	73	1,100	NA	NA	NA	NA
	9/11/1998	148.02	9.64	ND	138.38	80	<1.0	17	<3	450	NA	NA	NA	NA
	10/26/1998	148.02	8.98	ND	139.04	35	<10	14	20	640	NA	NA	NA	NA
	11/13/1998	148.02	9.14	ND	138.88	<100	27	15	28	2,400	NA	NA	NA	NA
	12/17/1998	148.02 148.02	9.39 8.79	ND ND	138.63 139.23	4 < 50	<1.0 41	1 32	<3 250	120 9,100	NA NA	NA NA	NA NA	NA NA
	2/9/1999	148.02	8.12	ND	139.23	60	170	110	800	11,000	NA	NA NA	NA NA	NA NA
	3/29/1999	148.02	7.95	ND	140.07	120	340	70	330	1,700	NA	NA	NA	NA
	6/24/1999	148.02	9.25	ND	138.77	3.6	<5.0	< 5.0	<15	749	<5	<100	130	230
	11/4/1999	148.02	8.65	ND	139.37	270	373	<25	142	13,200	<25	< 500	<500	580
	1/3/2000	148.02	8.94	ND	139.08	13.4	<5.0	<5.0	<15	2,620	<5.0	<100	<100	160
	2/25/2000 4/14/2000	148.02 148.02	8.18 8.41	ND ND	139.84 139.61	620 695	1,900 2,380	210 372	1,200 1,929	42,000 3,370	NS 0	NS <1,000	NS 3,100	NS 3,300
	8/21/2000	148.02	9.10	ND	138.92	118	8.5	104	34.1	7,950	0.0	<1,000	600	870
	11/20/2000	148.02	8.52	ND	139.50	300	168	70.5	316	3,250	0.0	<50	200	645
	2/26/2001	148.02	8.44	ND	139.58	384	926	410	1,763	9,880	0	<500	2,800	2,500
	7/16/2001	148.02	9.41	ND	138.61	188	<10	<10	<20	7,010	<10	<100	<100	117
	1/22/2002	148.02	9.40	ND	138.62	105	<10	97.4	106.1	1,960	0.0	<100	164	566
	5/7/2002 10/2/2002	148.02 147.60	8.31 9.93	ND ND	139.71 137.67	213 <2.0	746 <2.0	372 <2.0	1,560 <4.0	1,950 25.6	78.1 <3.0	544 <50	1,130 <50	2,990 <50
	5/10/2003	147.60	8.11	ND	139.49	18.1	249	318	963	520	61.8	489	<50	1,860
	11/13/2003	147.60	8.73	ND	138.87	<2.0	13.7	29	134	46.9	3.4	<50	<50	170
	5/18/2004	147.60	8.51	ND	139.09	<1.00	10.4	172	392	63	26.6	102	242	979
	11/19/2004	147.60	NG	NG	NA	<1.00	4.7	24.2	66.1	8.9	<5.0	<100	<100	<100
	6/20/2005	147.60 147.60	8.54 7.94	ND	139.06 139.66	< 1.00	< 3.00	3.9	18.9	17.5 23.4	10.2	<100 199	<100 281	<100 539
	12/16/2005 6/27/2006	147.60	7.55	ND ND	140.05	<1.00 1.96	<3.00	13.0 87.8	18.24 171.7	326	6.60 38.7	481	1,820	1,910
	12/14/2006	147.60	8.63	ND	138.97	<1.00	<3.00	2.29	<6.00	<3.00	<5.00	<100	146	<50
	7/11/2007	147.60	9.06	ND	138.54	<1.00	< 3.00	<1.00	< 6.00	< 3.00	< 5.00	<100	<100	<100
	1/8/2008	147.60	8.32	ND	139.28	<1.00	< 3.00	6.94	< 6.00	<3.00	< 5.00	<100	<100	339
	6/20/2008	147.60	8.74	ND	138.86	<1.00	<3.00	<1.00	<4.00	<3.00	<5.00	<100	<100	<100
	6/22/2009	147.60 147.60	8.20 8.31	ND ND	139.40 139.29	<1.00	<3.00	<1.00	<4.00 <6.00	<3.00	<5.00 <5.00	<100 <100	<100 <100	152 125
	6/10/2010	147.60	8.93	ND ND	139.29	<1.00	<3.00	<1.00	< 4.00	<3.00	<5.00	<100	<100	<100
	6/19/2013	147.60	8.11	ND	139.49	<5.0	<5.0	<5.0	<10.0	<5.0	<5.0	<75	<25	<25
	3/26/2014	147.60	8.21	ND	139.39	< 5.0	< 5.0	< 5.0	<10.0	< 5.0	< 5.0	<75	<25	<25
	6/30/2014	147.60	9.09	ND	138.51	<1.0	<1.0	<1.0	<2.0	<1.0	<5.0	<100	<100	<100
	3/31/2015 9/17/2015	147.60 147.60	7.70	ND ND	139.90 138.20	<1.0	<1.0	<1.0	<2.0	<1.0	<5.0 <5.0	<100 <100	<100 <100	<100 <100
	12/16/2015	147.60	9.40	ND	138.57	<1.0	<1.0	<1.0	<3.0	<1.0	<5.0	<100	<100	<100
	3/8/2016	147.60	8.55	ND	139.05	<1.0	<1.0	<1.0	<3.0	<1.0	<5.0	<100	<100	<100
	6/7/2016	147.60	8.80	ND	138.80	<1.0	<1.0	<1.0	<3.0	<1.0	<5.0	<100	<100	<100
	9/26/2016	147.60	9.52	ND	138.08	<1.0	<1.0	<1.0	<3.0	<1.0	<5.0	<100	<100	<100
	12/20/2016 3/28/2017	147.60	8.74	ND	138.86	<1.0	<1.0	<1.0	<3.0	<1.0	<5.0	<100	<100	<100
	3/28/2017	147.60	8.04 8.42	ND ND	139.56 139.18	<1.0 <1.0	19 1.4	9.3	96 44	<1.0	6.8	140 <100	<100 210	320 160
	6/28/2017						1.4	7.3	44		6.2		210	
	6/28/2017	147.60						14	49.7	1.5	10	<100	<100	290
	6/28/2017 9/19/2017 12/27/2017	147.60 147.60 147.60	9.11 8.87	ND ND	138.49 138.73	<1.0	<1.0 <1.0	14 2.6	49.7 2.3	1.5 <1.0	10 <5.0	<100 <100	<100 120	290 <100
	6/28/2017 9/19/2017	147.60	9.11	ND	138.49	<1.0	<1.0							
	6/28/2017 9/19/2017 12/27/2017	147.60 147.60	9.11 8.87	ND ND	138.49 138.73	<1.0 <1.0	<1.0 <1.0	2.6	2.3	<1.0	<5.0	<100	120	<100

95-214880 Global Companies LLC Table 2 Concentrations of Volatile Petroleum Hydrocarbons (VPH) Mobil Station No. 1436 309 Lowell Street Detected in Groundwater Well No. Top of Depth Ground C5-C8 (GW Class) Casing Depth to Water Ethyl-Total Naph-C9-C12 C9-C10 Sampling Dat Screen Interval (ft.) LNAPL (ft) Toluen Xylenes (μg/l) MTBE Aliphatics (μg/l) Aliphatic (μg/l) Aromatics (µg/l) (ft) (ft) (µg/l) (μg/l) (µg/l) (μg/l) $(\mu g/l)$ 1,000 50,000 10,000 700 20,000 70 50,000 300 3,000 700 5,000 200 4,000 MCP Method 1 Standards 10,000 50,000 20,000 50,000 9,150 MW.4 4/3/1997 34 400 NA NA NΑ 4,720 2,700 (GW-1,2,3) 24,000 NA 7/21/1997 147.95 9.36 ND 138.59 18,000 600 4,600 NA NA NA 5-15 10/22/1997 5/4/1998 147.95 147.95 10.40 ND ND 137.55 139.95 3,400 2,900 16,000 17,000 5,900 7,400 25,000 3,900 NA NA NA NA NA NA NA NA 7/30/1998 3,200 147.95 8.59 ND 139.36 2,600 17,000 990 7,700 NA NA NA NA 9/11/1998 10/26/1998 138.95 139.16 370 320 9,000 3,900 4,400 1,700 3,000 3,700 NA NA 147.95 9.00 NA NA NA NA 11/13/1998 147.95 8.97 ND 138.98 200 3,300 250 1,600 970 NA NA NA NA 12/17/1998 ND 138.77 5,500 5,200 430 2,800 1,600 2,700 NA 139.30 3,600 2/9/1999 3/29/1999 147.95 7.90 ND 140.05 200 4.600 530 3.700 4.000 NA NA NA NA NA <2,500 ND 140.30 90 115 2,800 500 1,210 8,300 11,800 974 5,220 3,510 3,520 6/24/1999 147.95 9.63 ND 138.32 3,910 280 8,400 8,600 11/4/1999 1/3/2000 147.95 147.95 ND ND 139.47 139.17 113 491 <1,000 1,000 2,410 2/16/2000 147.95 8.28 ND 139.67 243 854 281 1,548 2,340 73 < 500 2,400 3,170 4/14/2000 147.95 ND ND 140.03 139.13 632 932 3.550 890 4,140 210 <2,500 7.700 7,000 8.82 5,100 <250 8/21/2000 < 5,000 9,500 11/20/2000 147.95 8.25 ND 139.70 537 1,290 343 527 12,300 86 <100 531 1.570 147.95 147.95 139.28 138.73 2/26/2001 7/16/2001 8.67 ND 455 3,190 942 245 <1,000 <500 8,300 8,500 5,490 1,940 ND 4,200 3,380 70,500 181 9.22 600 5,480 9,190 9/7/2001 147.95 9.82 ND 138.13 366 432 432 1.672 42,000 128 <100 1.530 2,640 555 199 ND ND 6,130 2,350 <2,500 850 887 <250 3,750 1/22/2002 5/7/2002 9.28 8.14 138.67 3,150 <2,500 727 147.95 139.81 1,660 2,460 1,340 705 792 10/2/2002 5/10/2003 147.67 147.67 ND ND 137.85 139.86 613 187 2,466 851 691 425 151 45.6 2,570 1,450 140 24 619 11/12/2003 147.67 8.85 ND 138.82 292 1,299 132 612 103 3,010 2/3/2004 3/19/2004 147.67 147.67 138.81 139.29 NS 224 47 427 5/18/2004 147.67 8.36 ND 139.31 1.5 321 1,133 31.3 1,650 1,850 NG NG NA NA 186 176 3,560 3,370 11/19/2004 1 <1.0 142 2,566 11.4 147.67 1/19/2004 Dup 6/20/2005 12/16/2005 147.67 7.7 ND 139.97 24.8 338 2.908 123 206 931 < 2.000 7.300 <100 7.33 140.34 <100 ND <1.00 < 3.00 < 5.00 <100 6/27/2006 147.67 <1.00 <4.00 < 3.00 <3.00 12/14/2006 147.67 ND 139.38 <1.00 <3.00 8.29 41.3 153.8 <5.00 <100 282 138.70 43.2 1,840 7/11/2007 147.67 8.97 ND <1.00 < 3.00 < 3.00 25.4 163 1,680 1/8/2008 147.67 8.10 ND 139.57 <1.00 < 3.00 <1.00 < 6.00 < 3.00 < 5.00 <100 <100 6/20/2008 1/14/2009 147.67 ND ND 139.06 <3.00 <3.00 16.02 7.13 <3.00 <3.00 134 134 197 275 561 731 139.59 <1.00 8.08 6/22/2009 147.67 6.35 ND 141.32 <1.00 < 3.00 <1.00 < 6.00 < 3.00 < 5.00 <100 <100 282 12/23/2009 6/10/2010 147.67 147.67 139.56 138.93 3.23 1.92 8.11 ND <3.00 <6.00 <3.00 < 5.00 183 184 562 ND < 3.00 < 6.00 < 3.00 < 5.00 109 121 256 6/28/2011 147.67 8.07 ND 139.60 < 5.0 <10.0 < 5.0 <5.0 <5.0 25.0 25.0 9/28/2011 8 45 ND 139.22 < 5.0 <5.0 <10.0 <5.0 <5.0 <75.0 66.6 12/22/2011 147.67 8.01 ND 139.66 < 5.0 < 5.0 < 5.0 <10.0 < 5.0 < 5.0 <75.0 <75.0 <75.0 3/8/2012 8.15 ND 139.52 <5.0 <5.0 < 5.0 <5.0 <5.0 <10.0 < 5.0 < 5.0 147.67 8.72 7.70 138.95 <15.0 49.1 60.4 147.67 ND 139.97 < 5.0 <5.0 <15.0 < 5.0 38.9 ND ND ND 12/16/2013 147.67 147.67 9.08 138.59 <5.0 < 5.0 < 5.0 < 5.0 <5.0 138.72 < 5.0 <100 <100 8.95 7.61 <1.0 <3.0 16 <100 <1.0 <1.0 12/8/2014 147.67 140.06 <1.0 <1.0 <1.0 < 5.0 <100 <100 <100 <1.0 <1.0 9.26 ND 138.41 <100 <100 <100 12/16/2015 138.72 < 5.0 <1.0 3/8/2016 147.67 8.36 ND 139.31 <1.0 <1.0 < 5.0 <100 <100 <100 9.40 ND 138.27 <1.0 <1.0 <3.0 <100 <100 <100 12/20/2016 147.67 8.41 ND 139.26 <1.0 <1.0 <1.0 < 3.0 <1.0 < 5.0 <100 <100 <100 <1.0 <1.0 <2.0 3/28/2017 147.67 ND 145.28 <1.0 <1.0 < 5.0 <100 <100 <100 <1.0 <1.0 147.67 12/27/2017 147.67 8.80 ND 138.87 <1.0 1.2 <1.0 < 2.0 <1.0 < 5.0 <100 <100 <100 147.67 7.88 ND 139.79 <1.0 <1.0 < 5.0 <100 <100 <100 138.94 <1.0 <100 147.67 12/3/2018 147.67 7.09 ND 140.58 <1.0 <1.0 <1.0 < 3.0 <1.0 < 5.0 <100 <100 <100 10/2/2002 147.44 9.47 ND 137.97 82.7 740 612 4,280 1,410 290 1260 895 3950 (GW-1.3) 11/18/2002 147.44 7.91 ND 139.53 26.4 4.1 268 659 378 **184** 51.8 1930 1080 2880 ND ND 140.20 138.88 76.5 131 172 728 235 147.44 8.4 140.8 11/13/2003 147.44 8.56 <2.0 <2.0 28.6 7.8 8.5 < 50 5/18/2004 147.44 7.99 ND 139.45 <1.00 <3.0 9.1 <6.0 18 < 5.0 <100 <100 <100 11/18/2004 NA 139.52 <100 <1.00 < 5.0 <100 1.8 < 6.0 <3.0 ND 6/20/2005 147.44 <1.00 <3.0 <6.0 6.0 < 5.0 <100 <100 <100 12/16/2005 147.44 7.38 ND 140.06 <1.00 <3.00 1.88 <4.00 3.84 < 5.00 <100 <100 <100 6/27/2006 7/11/2007 147.44 6.90 ND 140.54 <1.00 < 3.00 <1.00 <4.00 < 3.00 < 5.00 <100 <100 <100 147.44 9.05 ND 138.39 <1.00 < 3.00 <1.00 < 6.00 < 3.00 < 5.00 <100 <100 <100 1/8/2008 ND 139.72 <1.00 < 3.00 23.3 72.6 <4.00 <3.00 <100 <100 557 139.19 < 1.00 < 3.00 <3.00 <100 <100 12/23/2008 147.44 ND NA <1.00 < 3.00 < 1.00 <6.00 < 3.00 < 5.00 <100 <100 <100 139.86 <1.00 <3.00 <1.00 < 6.00 < 3.00 <100 <100 <100 12/23/2009 147.44 < 1.00 <3.00 <1.00 < 6.00 < 3.00 < 5.00 <100 <100 6/10/2010 147.44 7.20 ND 140.24 <1.00 <3.00 <1.00 < 6.00 < 3.00 < 5.00 <100 <100 <100 MW-5DD ND <50 <50 5/10/2003 NA <2.0 Unknown 7.18 <2.0 <2.0 <4.0 <2.0 <3.0 < 50 (GW-1,3) 11/13/2003 Unknown 8.11 ND NA 2 <3.0 <50 <50 66.5

< 5.0

< 5.0

<100

<100

<100

<100

<100

<100

68-73

5/18/2004

11/18/2004

Unknown

Unknown

NG

ND

NG

NA

NA

< 1.00

<1.00

<1.0

< 3.0 <1.0 < 6.0

< 6.0 <3.0

< 3.0

Section Company Comp	Class		er, MA						D	accicu iii v	31 ound wa	ici				
West	Nethoral Sundanish	(GW Class) Screen	Sampling Date	Casing Elevation	to Water (ft)	LNAPL (ft)	Water Elevation	(µg/l)	$(\mu g/l)$	benzene (μg/l)	Xylenes (μg/l)	(µg/l)	thalene (µg/l)	Aliphatics (µg/l)	Aliphatics (µg/l)	C ₉ -C ₁₀ Aromatics (µg/l)
CW-A C221198	VA 6221998							-								
OW-A 6-221999 14-72 4-84 ND 139-99 cl.0 cl	N.A. 6221998 14474 5457 ND 13990 c10 c10 c10 c10 c1 c1 c1	MCP Metho	d 1 Standards													
GOW-1-1 7-001998 144-74 5-07 ND 139-07 cl.0 cl.0	1.4.1.3	OW A	6/22/1009	144.74			120.00									
1411999			0.22.7770													
1076/1998 14473 5572 ND 13902 c10 c10 c10 c10 c3 c10 NA NA NA NA NA NA NA N	10261998 14474 572 572 ND 13902 <1.0 <1.0 <1.0 <1.0 <3 <1.0 NA NA NA NA NA NA NA N		9/11/1998	144.74	6.57	ND	138.17									
1217171998 14474 612 ND	12/17/1988 14474 6.12 ND 14162 -1.0 -1.0 -1.0 -1.0 -3 -1.0 NA NA NA NA NA 16/1999 14474 5.50 ND 139.24 -1.0 -1.0 -1.0 -3 -1.0 NA NA NA NA NA NA NA 329/1999 14474 5.50 ND 139.24 -1.0 -1.0 -1.0 -1.0 -3 -1.0 NA NA NA NA NA NA NA N		10/26/1998	144.74		ND	139.02									
16/1999 144,74 5.57 ND 191,77 -1.0 -1.0 -1.0 -2.0 -2.0 -2.0 -2.0 NA NA NA NA NA NA NA N	161999		11/13/1998	144.74	5.85	ND	138.89	<1.0	<1.0	<1.0	<3	<1.0	NA	NA	NA	NA
29/1999 14474 5.50 ND 19924 -1.0 -1.0 -1.0 -3.0 -3.0 -1.0 -3.0 -3.0 -3.0 -3.0 NA NA NA NA NA NA NA N	29/19/99															
\$\begin{array}{c c c c c c c c c c c c c c c c c c c	\$\frac{3}{6}\text{2}\text{9}\text{9} \$\frac{1}{4}\text{7}{4} \text{ 4} \text{8}\text{2} \text{ ND } \$\frac{1}{1}\text{9}\text{8} < \cdot \text{0} \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \															
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11/20/2000 144.74 5.26 ND 139.48 <5.0 <5.0 <5.0 <5.0 <5.0 <5.0 <5.0 <5.0 <5.0 <5.0 <5.0 <5.0 <5.0 <5.0 <5.0 <5.0 <5.0 <5.0 <5.0 <5.0 <5.0 <5.0 <5.0 <5.0 <5.0 <5.0 <5.0 <5.0 <5.0 <5.0 <5.0 <5.0 <5.0 <5.0 <5.0 <5.0 <5.0 <5.0 <5.0 <5.0 <5.0 <5.0 <5.0 <5.0 <5.0 <5.0 <5.0 <5.0 <5.0 <5.0 <5.0 <5.0 <5.0 <5.0 <5.0 <5.0 <5.0 <5.0 <5.0 <5.0 <5.0 <5.0 <5.0 <5.0 <5.0 <5.0 <5.0 <5.0 <5.0 <5.0 <5.0 <5.0 <5.0 <5.0 <5.0 <5.0 <5.0 <5.0 <5.0 <5.0 <5.0 <5.0 <5.0 <5.0 <5.0 <5.0 <5.0 <5.0 <5.0 <5.0 <5.0 <5.0 <5.0 <5.0 <5.0 <5.0 <5.0 <5.0 <5.0 <5.0 <5.0 <5.0 <5.0 <5.0 <5.0 <5.0 <5.0 <5.0 <5.0 <5.0 <5.0 <5.0 <5.0 <5.0 <5.0 <5.0 <5.0 <5.0 <5.0 <5.0 <5.0 <5.0 <5.0 <5.0 <5.0 <5.0 <5.0 <5.0 <5.0 <5.0 <5.0 <5.0 <5.0 <5.0 <5.0 <5.0 <5.0 <5.0 <5.0 <5.0 <5.0 <5.0 <5.0 <5.0 <5.0 <5.0 <5.0 <5.0 <5.0 <5.0 <5.0 <5.0 <5.0 <5.0 <5.0 <5.0 <5.0 <5.0 <5.0 <5.0 <5.0 <5.0 <5.0 <5.0 <5.0 <5.0 <5.0 <5.0 <5.0 <5.0 <5.0 <5.0 <5.0 <5.0 <5.0 <5.0 <5.0 <5.0 <5.0 <5.0 <5.0 <5.0 <5.0 <5.0 <5.0 <5.0 <5.0 <5.0 <5.0 <5.0 <5.0 <5.0 <5.0 <5.0 <5.0 <5.0 <5.0 <5.0 <5.0 <5.0 <5.0 <5.0 <5.0 <5.0 <5.0 <5.0 <5.0 <5.0 <5.0 <5.0 <5.0 <5.0 <5.0 <5.0 <5.0 <5.0 <5.0 <5.0 <5.0 <5.0 <5.0 <5.0 <5.0 <5.0 <5.0 <5.0 <5.0 <5.0 <5.0 <5.0 <5.0 <5.0 <5.0 <5.0 <5.0 <5.0 <5.0 <5.0 <5.0 <5.0 <5.0 <5.0 <5.0 <5.0 <5.0 <5.0 <5.0 <5.0 <5.0 <5.0 <5.0 <5.0 <5.0 <5.0 <5.0 <5.0 <5.0 <5.0 <5.0 <5.0 <5.0 <5.0 <5.0 <5.0 <5.0 <5.0 <5.0 <5.0 <5.0 <5.0 <5.0 <5.0 <5.0 <5.0 <5.0 <5.0 <5.0 <5.0 <5.0 <5.0 <5.0 <5.0 <5.0 <5.0 <5.0 <5.0	1/20/2000															
101/2002 144,34	10/28/002															
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CW-B 1311997 148.52 9.54 ND 138.88 67 626 860 6970 15,100 NA NA NA NA NA NA NA	No. No.															
(IGW-1.3)	14.31 14.31997		11/13/2003	111.51	5.52	.,,,	137.02	42.0	12.0	12.0	V1.0	12.0	13.0			
(IGW-1.3)	14.31 14.31997	OW-B	1/31/1997	148.52	9.54	ND	138.98	67	626	860	6,970	15,100	NA	NA	NA	NA
72,11997 148,52 110,72 ND 137,80 250 700 500 42,00 14,00 NA NA NA NA NA NA Society 54,1198 148,52 92,6 ND 139,26 90 100 140 12,00 5900 NA NA NA NA NA NA NA	10.51							128								
S441998	5441998		7/21/1997	148.52	10.72	ND	137.80	250		560	4,200	14,000	NA	NA	NA	NA
Transport	97.001998 148.52 10.25 ND 138.27 \$\sqrt{\$\sqrt{\$c\$0}\$ 350 480 24.00 8.800 NA NA NA NA NA NA 10.261998 148.52 10.35 ND 138.17 \$\sqrt{\$50}\$ 910 610 3.200 11.000 NA NA NA NA NA NA NA															
9111/999	9/11/1998 148.52 11.04 ND 137.48 290 490 500 3.200 11.000 NA NA NA NA NA 11/13/1998 148.52 10.35 ND 138.12 590 1.400 610 3.200 12.000 NA NA NA NA NA NA 11/13/1998 148.52 10.71 ND 137.79 3.30 83.0 5.90 4.400 6.500 NA NA NA NA NA NA NA															
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11/13/1998 148.52 10.40 ND 138.12 500 1,400 670 4,500 15,000 NA NA NA NA NA NA NA	11/13/1998															
121/171998	12/17/1998															
1/61/1999	16/1999 148.52 10/99 ND 138.43 500 380 450 3.500 4,000 NA NA NA NA NA NA 3/29/1999 148.52 9.52 ND 139.00 230 400 450 3.500 9,000 NA NA NA NA NA 6/24/1999 148.52 9.52 ND 139.00 230 400 450 3.500 9,000 NA NA NA NA NA NA 6/24/1999 148.52 9.54 ND 138.58 179 750 440 2.830 10,500 170 2.500 2.500 7,300 1/3/2000 148.52 9.54 ND 138.58 179 750 440 2.830 10,500 170 2.500 2.500 7,300 1/3/2000 148.52 9.76 ND 138.64 433 890 463 3.200 2.200 202 2.000 5,400 7,000 2.052/2000 148.52 9.76 ND 138.64 433 890 463 3.200 2.000 202 2.000 5,400 7,000 2.052/2000 148.52 9.76 ND 138.50 130															
29/1999	2991999 148.52 9.63 ND 138.89 100 540 510 4.300 7,000 NA NA NA NA NA RA RA RA															
\$\frac{3291999}{6241999} 148.52 9.52 ND 139.00 220 400 450 3.500 9.000 NA NA NA NA NA S.																
6241999	624/1999															
114/1999	11/4/1999 148.52 9.94 ND 138.58 179 750 440 2.830 10,500 170 <2,500 <2,500 <2,300 <2,300 <2,300 <2,300 <2,300 <2,300 <2,300 <2,300 <2,300 <2,300 <2,300 <2,300 <2,300 <2,300 <2,300 <2,300 <2,300 <2,300 <2,300 <2,300 <2,300 <2,300 <2,300 <2,300 <2,300 <2,300 <2,300 <2,300 <2,300 <2,300 <2,300 <2,300 <2,300 <2,300 <2,300 <2,300 <2,300 <2,300 <2,300 <2,300 <2,300 <2,300 <2,300 <2,300 <2,300 <2,300 <2,300 <2,300 <2,300 <2,300 <2,300 <2,300 <2,300 <2,300 <2,300 <2,300 <2,300 <2,300 <2,300 <2,300 <2,300 <2,300 <2,300 <2,300 <2,300 <2,300 <2,300 <2,300 <2,300 <2,300 <2,300 <2,300 <2,300 <2,300 <2,300 <2,300 <2,300 <2,300 <2,300 <2,300 <2,300 <2,300 <2,300 <2,300 <2,300 <2,300 <2,300 <2,300 <2,300 <2,300 <2,300 <2,300 <2,300 <2,300 <2,300 <2,300 <2,300 <2,300 <2,300 <2,300 <2,300 <2,300 <2,300 <2,300 <2,300 <2,300 <2,300 <2,300 <2,300 <2,300 <2,300 <2,300 <2,300 <2,300 <2,300 <2,300 <2,300 <2,300 <2,300 <2,300 <2,300 <2,300 <2,300 <2,300 <2,300 <2,300 <2,300 <2,300 <2,300 <2,300 <2,300 <2,300 <2,300 <2,300 <2,300 <2,300 <2,300 <2,300 <2,300 <2,300 <2,300 <2,300 <2,300 <2,300 <2,300 <2,300 <2,300 <2,300 <2,300 <2,300 <2,300 <2,300 <2,300 <2,300 <2,300 <2,300 <2,300 <2,300 <2,300 <2,300 <2,300 <2,300 <2,300 <2,300 <2,300 <2,300 <2,300 <2,300 <2,300 <2,300 <2,300 <2,300 <2,300 <2,300 <2,300 <2,300 <2,300 <2,300 <2,300 <2,300 <2,300 <2,300 <2,300 <2,300 <2,300 <2,300 <2,300 <2,300 <2,300 <2,300 <2,300 <2,300 <2,300 <2,300 <2,300 <2,300 <2,300 <2,300 <2,300 <2,300 <2,300 <2,300 <2,300 <2,300 <2,300 <2,300 <2,300 <2,300 <2,300 <2,300 <2,300 <2,300 <2,300 <2,300 <2,300 <2,300															
1/3/2000	1/3/2000			148.52												7,300
\$\frac{2252000}{4148.52} \text{14}{2000} \text{14}{8.52} \text{9.37} \text{ND} \text{14}{14} \text{90} \qq\qq \qq \qq \qq	2252000		1/3/2000	148.52	10.20	ND	138.32	265	542	460	2,890	20,500	217	<1,000	4,100	7,100
4/14/2000	414/2000										0,000			,	-,	7,000
821/2000	8/21/2000															
11/20/2000	11/20/2000															
2262001	2262001															
7/16/2001	7716/2001 148.52 10.64 ND 137.88 214 108 253 431.2 11.400 81.4 <100 842 13.88 97.72001 148.52 11.26 ND 137.26 1940 5.250 953 8.460 19.800 199 <250 4570 4570 8.676 1222002 148.52 11.68 ND 136.84 97.4 <50 90.6 33.55 5.070 <50 <500 <500 <500 1.522 577/2002 148.52 9.43 ND 139.90 185 75.5 291 1.108 74.50 121 345 1,060 4.03 10/2/2002 148.12 19.29 ND 137.20 <2.0 <2.0 <2.0 <2.0 <2.0 <2.0 <2.0 <2.0 <3.0 <50 <50 <50 <50 <50 <50 <50 <50 <50 <50 <50 <50 <50 <50 <50 <50 <50 <50 <50 <50 <50 <50 <50 <50 <50 <50 <50 <50 <50 <50 <50 <50 <50 <50 <50 <50 <50 <50 <50 <50 <50 <50 <50 <50 <50 <50 <50 <50 <50 <50 <50 <50 <50 <50 <50 <50 <50 <50 <50 <50 <50 <50 <50 <50 <50 <50 <50 <50 <50 <50 <50 <50 <50 <50 <50 <50 <50 <50 <50 <50 <50 <50 <50 <50 <50 <50 <50 <50 <50 <50 <50 <50 <50 <50 <50 <50 <50 <50 <50 <50 <50 <50 <50 <50 <50 <50 <50 <50 <50 <50 <50 <50 <50 <50 <50 <50 <50 <50 <50 <50 <50 <50 <50 <50 <50 <50 <50 <50 <50 <50 <50 <50 <50 <50 <50 <50 <50 <50 <50 <50 <50 <50 <50 <50 <50 <50 <50 <50 <50 <50 <50 <50 <50 <50 <50 <50 <50 <50 <50 <50 <50 <50 <50 <50 <50 <50 <50 <50 <50 <50 <50 <50 <50 <50 <50 <50 <50 <50 <50 <50 <50 <50 <50 <50 <50 <50 <50 <50 <50 <50 <50 <50 <50 <50 <50 <50 <50 <50 <50 <50 <50 <50 <50 <50 <50 <50 <50 <50 <50 <50 <50 <50 <50 <50 <50 <50 <50 <50 <50 <50 <50 <50 <50 <50 <50 <50 <50 <50 <50 <50 <50 <50 <50 <50 <50 <50 <50 <50 <50 <50 <50 <50 <50 <50 <50 <50 <50 <50 <50 <50 <5															
97/2001 148.52 11.26 ND 137.26 1940 5.250 983 8.460 19.800 199 <250 4570 8.8 1222002 148.52 11.68 ND 136.84 97.4 <50 90.6 335 5.070 <50 <500 <500 <500 <500 1.1 1.0 1.0 1.0 1.0 1.0 10/27002 148.52 9.43 ND 137.00 185 75.5 291 1.108 7.450 121 345 1.060 4.4 10/27002 148.12 10.92 ND 137.20 <2.0 <2.0 <2.0 <2.0 <4.0 76 <3.0 <50 <50 <50 <50 <50 5/10/2003 148.12 10.92 ND 138.84 <2.0 <2.0 <2.0 <2.0 <2.0 <4.0 76 <3.0 <50 <50 <50 <50 5/10/2003 148.12 10.03 ND 138.66 <2.0 <2.0 <2.0 <2.0 <2.0 <2.0 <2.0 <7 <3.0 <50 <50 <50 <50 5/18/2004 148.12 9.75 ND 138.83 <2.0 <2.0 <2.0 <2.0 <2.0 <2.0 <7 <3.0 <50 <50 <50 <50 5/18/2004 148.12 10.03 ND 138.89 <1.00 <3.0 <1.0 <5.0 <3.0 <5.0 <10 <10 12/16/2005 148.12 10.03 ND 138.89 <1.00 <3.0 <1.0 <5.0 <3.0 <5.0 <100 <100 <10 12/16/2005 148.12 9.23 ND 138.89 <1.00 <3.00 <1.0 <4.00 <3.00 <5.00 <100 <100 <10 <10 6/27/2006 148.12 9.84 ND 138.28 <1.00 <3.00 <1.00 <4.00 <3.00 <5.00 <100 <100 <10 <10 7/10/2007 148.12 9.98 ND 138.14 <1.00 <3.00 <1.00 <6.00 <3.00 <5.00 <100 <100 <10 <10 <10 <10 <10 <10 <10 <10 <10 <10 <10 <10 <10 <10 <10 <10 <10 <10 <10 <10 <10 <10 <10 <10 <10 <10 <10 <10 <10 <10 <10 <10 <10 <10 <10 <10 <10 <10 <10 <10 <10 <10 <10 <10 <10 <10 <10 <10 <10 <10 <10 <10 <10 <10 <10 <10 <10 <10 <10 <10 <10 <10 <10 <10 <10 <10 <10 <10 <10 <10 <10 <10 <10 <10 <10 <10 <10 <10 <10 <10 <10 <10 <10 <10 <10 <10 <10 <10 <10 <10 <10 <10 <10 <10 <10 <10 <10 <10 <10 <10 <10 <10 <10 <10 <10 <10 <10	97/72001															
1/22/2002	1/22/2002															
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6/28/2011 148.12 9.56 ND 138.56 <5.0 <5.0 <5.0 <1.00 <5.0 10.5 160 152 8 12/12/2012 148.12 9.98 ND 138.14 <5.0 <5.0 <5.0 <1.00 <5.0 <1.0 <5.0 <5.0 <5.0 <1.0 <5.0 <5.0 184 42.8 7. 3/26/2014 148.12 9.25 ND 138.87 <5.0 <5.0 <5.0 <5.0 <1.0 <5.0 <5.0 8.7 127 99.3 7.	628/2011 148.12 9.56 ND 138.56															
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3/26/2014 148.12 9.25 ND 138.87 <5.0 <5.0 <5.0 <10.0 <5.0 8.7 127 99.3 76	3/26/2014 148.12 9.25 ND 138.87 <5.0 <5.0 <5.0 <5.0 <5.0 <5.0 <5.0 8.7 127 99.3 76.3															
//11/2017 146.12 10.44 NID 137.00 NID NID																

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Well No. (GW Class) Screen Interval (ft.)	Sampling Date	Top of Casing Elevation (ft)	Depth to Water (ft)	Depth to LNAPL (ft)	Ground Water Elevation (ft)	Benzene (μg/l)	Toluene (μg/l)	Ethyl- benzene (μg/l)	Total Xylenes (μg/l) 10,000	MTBE (μg/l)	Naph- thalene (μg/l)	C ₅ -C ₈ Aliphatics (µg/l) 300	C ₉ -C ₁₂ Aliphatics (µg/l) 700	C ₉ -C ₁₀ Aromatics (µg/l) 200
MCP Metho	d 1 Standards			W-1 W-2		5 2,000	1,000 50,000	700 20,000	3,000	70 50,000	140 700	3,000	5,000	4,000
mer memo	a i Standards			W-3		10,000	40,000	5,000	5,000	50,000	20,000	50,000	50,000	50,000
OW-BD	11/20/2000	147.93	9.38	ND	138.55	124	12.6	151	201.6	8,170	38.4	<50	238	782
(GW-1,3)	2/26/2001	147.93	9.06	ND	138.87	84	<5.0	108	128	4,520	18.7	<100	380	420
20-25'	1/22/2002 5/7/2002	147.93 147.93	10.20 8.96	ND ND	137.73 138.97	<5.0 <5.0	<5.0 <5.0	<5.0 <5.0	<10 <10	646 870	10 <5.0	<50 <50	<50 <50	<50 <50
	10/2/2002	147.65	10.44	ND	137.21	29.1	<2.0	72.1	62.7	1,480	<3.0	<50	<50	145
	5/10/2003	147.65	8.83	ND	138.82	16.4	3.2	134	102.6	967	34.2	<50	<50	710
	11/13/2003	147.65	9.55	ND	138.10	<2.0	<2.0	4.1	4.7	254	<3.0	<50	<50	64
	5/18/2004	147.65	9.27	ND	138.38	1.3	<3.0	2.1	<6.0	113	<5.0	<100	<100 <100	<100
	11/17/2004 6/2/2005	147.65 147.65	NG 9.58	NG ND	NA 138.07	<1.00	<3.0	<1.0	<6.0 <6.0	3.5 < 3.0	<5.0 <5.0	<100 <100	<100	<100 <100
	12/16/2005	147.65	8.78	ND	138.87	<1.00	<3.00	<1.0	<4.00	<3.00	< 5.00	<100	<100	<100
	6/27/2006	147.65	8.21	ND	139.44	<1.00	<3.00	<1.00	<4.00	< 3.00	< 5.00	<100	<100	<100
	12/14/2006	147.65	9.40 9.48	ND	138.25	<1.00	<3.00	<1.00	<6.00	<3.00	<5.00	<100 <100	<100	<100 <100
	7/10/2007 1/8/2008	147.65 147.65	8.82	ND ND	138.17 138.83	<1.00	<3.00	<1.00	<6.00 <6.00	4.29	<5.00 <5.00	<100	<100 <100	<100
	6/20/2008	147.65	9.28	ND	138.37	<1.00	<3.00	<1.00	<4.00	<3.00	<5.00	<100	<100	<100
	12/18/2008	147.65	8.41	ND	139.24	<1.00	< 3.00	<1.00	< 6.00	< 3.00	< 5.00	<100	<100	<100
	6/22/2009	147.65	8.67	ND	138.98	<1.00	<3.00	<1.00	<6.00	18	< 5.00	<100	<100	<100
	12/23/2009 6/11/2010	147.65	8.80 9.40	ND ND	138.85 138.25	<1.00	<3.00	<1.00	<6.00 <6.00	<3.00	<5.00 <5.00	<100 <100	<100 <100	<100 <100
		147.65												
OW-C (GW-1,3)	5/4/1998 11/13/1998	141.22 141.22	2.65 3.04	ND ND	138.57 138.18	<1.0 <1.0	<1.0	<1.0	⊲	84 1	NA NA	NA NA	NA NA	NA NA
0.3-12'	12/17/1998	141.22	3.31	ND	137.91	<1.0	<1.0	<1.0	<3	2	NA	NA	NA	NA
	1/6/1999	141.22	2.95	ND	138.27	<1.0	<1.0	<1.0	<3	8	NA	NA	NA	NA
	2/9/1999	141.22	5.85	ND	135.37	<1.0	<1.0	<1.0	<3	<1	NA NA	NA	NA NA	NA NA
	3/29/1999 6/24/1999	141.22 141.22	2.55 3.28	ND ND	138.67 137.94	<1.0 <1.0	<1.0	<1.0	<3 <15	43 <5.0	NA <5.0	NA <100	NA <100	NA <100
	11/4/1999	141.22	2.90	ND	138.32	<1.0	<5.0	<5.0	<15	24.6	<5.0	<100	<100	<100
	12/14/2006	140.82	2.5	ND	138.32	<1.00	<3.00	<1.00	< 6.00	<3.00	< 5.00	<100	<100	<100
	7/10/2007	140.82	2.83	ND	137.99	<1.00	<3.00	<1.00	< 6.00	<3.00	< 5.00	<100	<100	<100
	1/8/2008 6/20/2008	140.82	2.28	ND	138.54	<1.00	<3.00	<1.00	<6.00	<3.00	<5.00	<100	<100	<100
	1/14/2009	140.82 140.82	2.70	ND ND	138.12 138.57	<1.00	<3.00	<1.00	<4.00 <6.00	<3.00	<5.00 <5.00	<100 <100	<100 <100	<100 <100
	6/22/2009	140.82	2.23	ND	138.61	<1.00	<3.00	<1.00	<6.00	<3.00	<5.00	<100	<100	<100
	6/10/2010	140.82	3.02	ND	137.80	<1.00	<3.00	<1.00	<6.00	<3.00	< 5.00	<100	<100	<100
OW-D	11/4/1999	141.36	3.49	ND	139.25	<1.0	<5.0	<5.0	<15	<5.0	<5.0	<100	<100	<100
(GW-1,3)	11/20/2000	141.36	3.56	ND	137.80	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<50	<50	<50
1-9'														
OW-ED	11/20/2000	148.60	9.73	ND	138.87	6.8	<5.0	<5.0	<10	326	<5.0	<50	<50	<50
(GW-1,3) 25-35'	2/26/2001 10/2/2002	148.60 148.33	9.56 11.04	ND ND	139.04 137.29	8.1 3.5	<5.0 <2.0	<5.0 <2.0	<15 <4.0	87.4 222	<5.0 <3.0	<100 <50	<100 <50	<100 <50
23-33	11/18/2002	148.33	9.13	ND	139.20	3.5	<2.0	<2.0	<4.0	213	<3.0	<50	<50	<50
	5/10/2003	148.33	9.23	ND	139.10	<2.0	<2.0	<2.0	<4.0	22.2	<3.0	<50	<50	<50
	11/13/2003	148.33	10.04	ND	138.39	3.4	<1.0	<1.0	<1.0	186	NS	NS	NS	NS
	5/18/2004	148.33	9.77	ND	138.56	3.1	<3.0	<1.0	<6.0	45.4	<5.0	<100	<100	<100
	May 18 04 Dup 11/17/2004	148.33 148.33	9.77 NG	ND NG	138.56 NA	3.6 4.4	<3.0	<1.0	<6.0 <6.0	36.2 120	<5.0 <5.0	<100 <100	<100 <100	<100 <100
	6/2/2005	148.33	9.7	ND	138.63	1.9	<3.0	<1.0	<6.0	80.4	<5.0	<100	<100	<100
	12/15/2005	148.33	9.02	ND	139.31	<1.00	<3.00	<1.00	<4.00	105	< 5.00	<100	<100	<100
	6/27/2006	148.33	8.60	ND	139.73	<1.00	<3.00	<1.00	<4.00	111	< 5.00	<100	<100	<100
	12/14/2006 7/10/2007	148.33 148.33	9.71	ND ND	138.62 138.30	<1.00	<3.00	<1.00	<6.00 <6.00	117 61.5	<5.00 <5.00	<100 <100	<100 <100	<100 <100
	1/8/2008	148.33	9.35	ND ND	138.30	<1.00 <1.00	<3.00	<1.00	<6.00	55.2	<5.00	<100	<100	<100
	6/20/2008	148.33	9.88	ND	138.45	<1.00	<3.00	<1.00	<4.00	109	<5.00	<100	<100	<100
	12/18/2008	148.33	8.89	ND	139.44	<1.00	<3.00	<1.00	<6.00	113	< 5.00	<100	<100	<100
	6/22/2009	148.33	9.18	ND ND	139.15	<1.00 <1.00	<3.00	<1.00	<6.00 <6.00	141 164	<5.00	<100	<100 <100	<100
	6/11/2010	148.33 148.33	10.00	ND ND	138.93 138.33	<1.00	<3.00	<1.00	<6.00	<3.00	<5.00 <5.00	<100 <100	<100	<100 <100
	6/28/2011	148.33	10.17	ND	138.16	<5.0	< 5.0	< 5.0	<10.0	<5.0	< 5.0	<75.0	<25.0	<25.0
	9/28/2011	148.33	09.71	ND	138.62	< 5.0	<5.0	<5.0	<10.0	34.2	< 5.0	<75.0	47.6	<25.0
	12/22/2011	148.33	09.11	ND	139.22	<5.0	<5.0	<5.0	<10.0	5	<5.0	<75.0	<25.0	<25.0
	9/10/2012 12/12/2012	148.33 148.33	10.33	ND ND	138.00 138.28	<5.0 <5.0	6.4 <5.0	17.9 <5.0	<10.0	<5.0	13.3 <5.0	162 <75.0	190 <25.0	188 26.6
	3/27/2013	148.33	9.02	ND	139.31	<5.0	<5.0	<5.0	<10.0	<5.0	<5.0	<75.0	<25.0	<25.0
	6/19/2013	148.33	8.19	ND	140.14	< 5.0	<5.0	< 5.0	<10.0	< 5.0	< 5.0	<75.0	<25.0	<25.0
	12/16/2013	148.33	9.27	ND	139.06	<5.0	<5.0	<5.0	<15.0	<5.0	<5.0	<75.0	<25.0	<25.0
	3/31/2015 9/17/2015	148.33 148.33	8.8 24.5	ND ND	139.53 123.83	<1.0	<1.0	<1.0	<3.0	16 90	<5.0	<100 <100	<100	<100 <100
	12/16/2015	148.33	10.07	ND ND	123.83	<1.0 <1.0	<1.0	<1.0	<3.0	28	<5.0 <5.0	<100 <100	<100 <100	<100
	3/8/2016	148.33	9.61	ND	138.72	<1.0	<1.0	<1.0	<3.0	<1.0	<5.0	<100	<100	<100
	6/7/2016	148.33	9.83	ND	138.50	<1.0	<1.0	<1.0	<3.0	7.9	<5.0	<100	<100	<100
	9/26/2016	148.33	10.65	ND	137.68	<1.0	<1.0	<1.0	<3.0	7.9	<5.0	<100	<100	<100
	12/20/2016 3/28/2017	148.33	9.76 9.14	ND ND	138.57 139.19	<1.0 <1.0	<1.0 <1.0	<1.0	<3.0	4.8 5.5	<5.0 <5.0	<100 <100	<100 <100	<100 <100
	6/28/2017	148.33 148.33	9.14	ND ND	139.19	<1.0	<1.0	<1.0	<2.0	29	<5.0	<100	<100	<100
	9/19/2017	148.33	10.25	ND	138.08	<1.0	<1.0	<1.0	<2.0	<1.0	<5.0	<100	<100	<100
	12/27/2017	148.33	9.95	ND	138.38	<1.0	<1.0	<1.0	<2.0	2.8	<5.0	<100	<100	<100
	3/19/2018	148.33	9.22	ND	139.11	<1.0	<1.0	<1.0	<2.0	<1.0	<5.0	<100	<100	<100
	6/6/2018	148.33	9.79 8.44	ND ND	138.54 139.89	<1.0 <1.0	<1.0 <1.0	<1.0	<3.0	<1.0 48	<5.0 <5.0	<100 <100	<100 <100	<100 <100
	12/3/2018	148.33												

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Well No. (GW Class) Screen Interval (ft.)	Sampling Date	Top of Casing Elevation (ft)	Depth to Water (ft)	Depth to LNAPL (ft)	Ground Water Elevation (ft)	Benzene (μg/l)	Toluene (µg/l)	Ethyl- benzene (µg/l)	Total Xylenes (µg/l)	MTBE (µg/l)	Naph- thalene (µg/l)	C ₅ -C ₈ Aliphatics (µg/l)	C ₉ -C ₁₂ Aliphatics (µg/l)	C ₉ -C ₁₀ Aromatics (µg/l)
				W-1		5	1,000	700	10,000	70	140	300	700	200
MCP Method	l 1 Standards			W-2 W-3		2,000 10,000	50,000 40,000	20,000 5,000	3,000 5,000	50,000	700 20,000	3,000 50,000	5,000 50,000	4,000 50,000
OW-F	7/30/1998	147.08	8.07	ND	139.01	<1.0	<1.0	<1.0	<3	<1.0	NA	NA	NA	NA
(GW-1,3)	9/11/1998	147.08	8.90	ND	138.18	<1.0	<1.0	<1.0	<3	<1.0	NA	NA	NA	NA
5-15'	10/26/1998	147.08	8.08	ND	139.00	<1.0	<1.0	<1.0	<3	<1.0	NA	NA	NA	NA
Note:	11/13/1998 12/17/1998	147.08 147.08	8.25 8.56	ND	138.83	<1.0	<1.0 <1.0	<1.0	⊲	<1.0	NA NA	NA	NA NA	NA NA
Well is	1/6/1999	147.08	7.92	ND ND	138.52 139.16	<1.0	<1.0	<1.0	-3	<1.0	NA NA	NA NA	NA NA	NA NA
confirmed	2/9/1999	147.08	7.05	ND	140.03	<1.0	<1.0	<1.0	<3	<1.0	NA	NA	NA	NA
to be	3/29/1999	147.08	6.85	ND	140.23	<1.0	<1.0	<1.0	<3	<1.0	NA	NA	NA	NA
obstructed	6/24/1999	147.08	8.53	ND	138.55	<1.0	<5.0	<5.0	<15	<5.0	<5.0	<100	<100	<100
OW-G	7/30/1998	147.57	8.91	ND	138.66	<5	<1.0	<1.0	<3	5	NA	NA	NA	NA
(GW-1,3)	9/11/1998	147.57	9.60	ND	137.97	<1.0	<1.0	<1.0	<3	<1.0	NA	NA	NA	NA
5-15'	10/26/1998	147.57	8.84	ND	138.73	<1.0	<1.0	<1.0	<3	<1.0	NA	NA	NA	NA
	11/13/1998 12/17/1998	147.57 147.57	8.96 9.23	ND ND	138.61 138.34	<1.0	<1.0	<1.0	⊲ 3	1 <1.0	NA NA	NA NA	NA NA	NA NA
	1/6/1999	147.57	9.23 8.62	ND ND	138.34	<1.0	<1.0	<1.0	3	<1.0	NA NA	NA NA	NA NA	NA NA
	2/9/1999	147.57	8.00	ND	139.57	<1.0	<1.0	<1.0	3	<1.0	NA	NA NA	NA NA	NA NA
	3/29/1999	147.57	7.85	ND	139.72	<1.0	<1.0	<1.0	9	10	NA	NA	NA	NA
	6/24/1999	147.57	9.30	ND	138.27	<1.0	<5.0	<5.0	<15	<5.0	<5.0	<100	<100	<100
	1/4/1999 1/3/2000	147.57 147.57	8.47 8.75	ND ND	139.10 138.82	<1.0 <1.0	<5.0 <5.0	<5.0 <5.0	<15 <15	<5.0 <5.0	<5.0 <5.0	<100 <100	<100 <100	<100 <100
	4/14/2000	147.57	8.32	ND	139.25	<1.0	<5.0	<5.0	<15	6.9	<5.0	<100	<100	<100
	10/2/2002	147.19	9.71	ND	137.48	<2.0	<2.0	<2.0	<4.0	<2.0	<3.0	<50	<50	<50
	5/10/2003	147.19	7.42	ND	139.77	<1.0	3	1.5	12.5	23.2	NS	NS	NS	NS
	5/18/2004	147.19	8.35	ND	138.84	<1.00	7.1	5	17.1	85.2	<5.0	<100	<100	<100
	11/19/2004 6/20/2005	147.19 147.19	NG 8.26	NG ND	NA 138.93	<1.00 <1.00	<3.0	<1.0	<6.0 <6.0	<3.0	<5.0 <5.0	<100 <100	<100 <100	<100 <100
	12/16/2005	147.19	6.49	ND	140.70	<1.00	<3.00	<1.00	<4.00	<3.00	<5.00	<100	<100	<100
	6/27/2006	147.19	7.00	ND	140.19	<1.00	< 3.00	<1.00	<4.00	< 3.00	< 5.00	<100	<100	<100
	12/14/2006	147.19	8.34	ND	138.85	<1.00	<3.00	<1.00	<6.00	<3.00	<5.00	<100	<100	<100
	7/11/2007 1/8/2008	147.19 147.19	8.78 8.07	ND ND	138.41 139.12	<1.00 <1.00	<3.00	<1.00	<6.00 <6.00	<3.00	<5.00 <5.00	<100 <100	<100 <100	<100 <100
	6/20/2008	147.19	8.51	ND	139.12	<1.00	<3.00	<1.00	<4.00	<3.00	<5.00	<100	<100	<100
	1/14/2009	147.19	7.92	ND	139.27	<1.00	<3.00	<1.00	< 6.00	<3.00	< 5.00	<100	<100	<100
	6/22/2009	147.19	7.80	ND	139.39	<1.00	< 3.00	<1.00	< 6.00	<3.00	< 5.00	<100	<100	<100
	12/23/2009 6/10/2010	147.19	8.00 8.70	ND ND	139.19 138.49	<1.00	<3.00	<1.00	<6.00 <6.00	<3.00	<5.00 <5.00	<100 <100	<100 <100	<100 <100
	9/30/2010	147.19 147.19	9.78	ND	137.41	<5.0	<5.0	<5.0	<15.0	<5.0	<5.0	<75	<25	<25
	12/29/2010	147.19	8.93	ND	138.26	< 5.00	< 5.00	< 5.00	<15.00	< 5.00	< 5.00	<75	<25	<25
	3/31/2011	147.19	7.58	ND	139.61	< 5.00	< 5.00	< 5.00	<15.00	< 5.00	< 5.00	<75	<25	<25
	6/28/2011	147.19	7.81	ND	139.38	<5.0	<5.0	<5.0	<10.0	<5.0	<5.0	<75.0	<25.0	<25.0
OW-H	5/20/1998	147.55	NG	ND	NG	<1.0	<1.0	<1.0	<3	<1.0	NA	NA	NA	NA
(GW-1,3)	7/30/1998	147.55	9.34	ND	138.21	<1.0	<1.0	<1.0	<3	<1.0	NA	NA	NA	NA
4-16'	9/11/1998	147.55	10.00	ND	137.55	<1.0	<1.0	<1.0	<3	<1.0	NA	NA	NA	NA
	10/26/1998	147.55 147.55	9.26 9.31	ND ND	138.29 138.24	<1.0	<1.0 <1.0	<1.0	⊲	<1.0 <1.0	NA NA	NA NA	NA NA	NA
	12/17/1998	147.55	9.31	ND ND	138.24	<1.0	<1.0	<1.0	3	<1.0	NA NA	NA NA	NA NA	NA NA
	1/6/1999	147.55	8.94	ND	138.61	<1.0	<1.0	<1.0	<3	<1.0	NA	NA NA	NA NA	NA NA
	2/9/1999	147.55	8.56	ND	138.99	<1.0	<1.0	<1.0	<3	<1.0	NA	NA	NA	NA
	3/29/1999	147.55	8.40	ND	139.15	<1.0	<1.0	<1.0	<3	<1.0	NA 5.0	NA	NA 100	NA
	6/24/1999 10/2/2002	147.55 147.25	9.74 10.02	ND ND	137.81 137.23	<1.0	<5.0 <2.0	<5.0 <2.0	<15 <4.0	<5.0 <2.0	<5.0 <3.0	<100 <50	<100 <50	<100 <50
	5/18/2004	147.25	9.03	ND	137.23	<1.00	<3.0	<1.0	<6.0	3.5	<5.0	<100	<100	<100
	11/19/2004	147.25	NG	NG	NA	<1.00	<3.0	<1.0	<6.0	<3.0	<5.0	<100	<100	<100
	6/2/2005	147.25	7.80	ND	139.45	<1.00	<3.0	<1.0	<6.0	<3.0	<5.0	<100	<100	<100
	12/16/2005 6/27/2006	147.25 147.25	7.81 7.68	ND ND	139.44 139.57	<1.00 <1.00	<3.00	<1.00	<4.00 <4.00	<3.00	<5.00 <5.00	<100	<100 <100	<100 <100
	12/13/2006	147.25	8.68	ND ND	139.57	<1.00	<3.00	<1.00	<6.00	<3.00	<5.00	<100	<100	<100
	7/10/2007	147.25	9.10	ND	138.15	<1.00	<3.00	<1.00	<6.00	<3.00	<5.00	<100	<100	<100
	1/7/2008	147.25	8.39	ND	138.86	<1.00	<3.00	<1.00	<6.00	<3.00	< 5.00	<100	<100	<100
	6/20/2008	147.25	8.82	ND	138.43	<1.00	<3.00	<1.00	<4.00	<3.00	<5.00	<100 <100	<100	<100
	12/18/2008	147.25 147.25	7.94 8.28	ND ND	139.31 138.97	<1.00	<3.00	<1.00	<6.00 <6.00	<3.00	<5.00 <5.00	<100 <100	<100 <100	<100 <100
	12/23/2009	147.25	8.47	ND	138.78	<1.00	<3.00	<1.00	<6.00	<3.00	<5.00	<100	<100	<100
	6/10/2010	147.25	9.11	ND	138.14	<1.00	<3.00	<1.00	<4.00	<3.00	< 5.00	<100	<100	<100

95-214880 Global Companies LLC Table 2 Concentrations of Volatile Petroleum Hydrocarbons (VPH) Mobil Station No. 1436 309 Lowell Street Detected in Groundwater Andover, MA Well No. Top of Depth Ground C5-C8 C9-C12 (GW Class) Casing Depth to Water Ethyl-Total Naph-C9-C10 Sampling Dat Screen Interval (ft.) Elevation Water LNAPL (ft) Elevation (ft) Toluen Xylenes (μg/l) MTBF Aliphatics (μg/l) Aliphatic (μg/l) Aromatics (µg/l) (ft) (ft) (µg/l) (μg/l) (µg/l) (μg/l) $(\mu g/l)$ 1,000 50,000 10,000 700 20,000 70 50,000 300 3,000 700 5,000 200 4,000 2,000 MCP Method 1 Standards 10,000 50,000 20,000 50,000 OW.I NA NA NΑ (GW-1,3) 3,200 NA 7/30/1998 146.61 8.18 ND 138.43 24 <1.0 NA NA NA Total depth 9/11/1998 10/26/1998 146.61 146.61 8.81 ND ND 137.80 138.52 <1.0 <20 <1.0 3 <1.0 <3.0 2,800 2,100 NA NA NA NA NA NA NA NA = 12.5' <20 11/13/1998 146.61 8.19 ND 138.42 <1.0 <1.0 1,200 NA NA NA NA 12/17/1998 146.61 146.61 138.20 138.87 <1.0 <10 780 670 NA NA NA NA <1.0 NA NA NA NA <1.0 <1.0 1/6/1999 <3.0 2/9/1999 146.61 7.40 ND 139.21 <1.0 <1.0 <1.0 <3.0 360 NA NA NA NA 3/29/1999 146.61 146.61 ND ND 139.48 1,400 1,100 NA NA <50 NA <50 NA 2 <5.0 138.87 < 5.0 < 5.0 5/27/1999 146.61 7.84 ND 138.77 20 26 1.000 NA NA NA NA 146.61 ND 137.99 10.2 28.1 807 530 <100 <100 6/24/1999 8.62 <5.0 <15 <100 <5 NA 7/20/1999 146.61 8.81 ND 137.80 < 5.0 <1 < 3.0 NA NA NA 11/4/1999 1/3/2000 146.61 146.61 ND ND 138.91 138.58 <1.0 <1.0 <5.0 <5.0 <5.0 <5.0 <5.0 <5.0 <100 <100 <100 <100 <100 <100 104 2/16/2000 146.61 7.43 ND 139.18 <1.0 < 5.0 < 5.0 <15 61.3 < 5.0 <100 <100 <100 2/25/2000 4/14/2000 146.61 146.61 ND ND 139.74 138.88 <1.0 <1.0 <5.0 100 NS <5.0 NS <100 NS <100 NS <100 96 <1.0 <15 < 5.0 8/21/2000 146.61 8.21 ND 138.40 <1.0 < 5.0 < 5.0 <15 28.5 < 5.0 <100 <100 <100 138.96 138.93 244 510 11/20/2000 146.61 ND <1.0 <50 <100 146.61 ND < 5.0 <5.0 <100 2/26/2001 7.68 <1.0 < 5.0 <15 <100 7/16/2001 146.61 8.61 ND 138.00 < 5.0 < 5.0 < 5.0 <10 873 < 5.0 < 50 < 50 < 50 ND ND 2,540 561 <5.0 17.8 <50 <50 <50 <50 146.61 < 5.0 <50 1/22/2002 5/7/2002 8.48 7.38 138.13 < 5.0 < 5.0 <10 146.61 139.23 <5.0 <50 7.91 7.67 7.27 11/13/2003 5/20/2004 145.43 145.43 ND ND 137.52 137.76 <1.00 <1.0 <1.0 <1.0 <3.0 <6.0 191 21.5 NS <5.0 NS <100 NS <100 NS <100 6/2/2005 145.43 ND 138.16 < 1.00 < 3.0 <1.0 <6.0 < 3.0 < 5.0 <100 <100 <100 145.43 145.43 <3.00 <3.00 <1.00 <4.00 <4.00 <5.00 <5.00 12/15/2005 6.13 6.19 ND ND 139.30 139.24 <1.00 <1.00 < 3.00 < 3.00 <100 <100 <100 <100 <100 <100 12/13/2006 145.43 7.54 ND 137.89 <1.00 < 3.00 <1.00 < 6.00 4.71 < 5.00 <100 <100 <100 145.43 145.43 ND ND 137.44 138.09 7/10/2007 7.99 <1.00 <3.00 <1.00 < 6.00 < 3.00 < 5.00 <100 <100 <100 < 1.00 <3.00 <1.00 < 6.00 < 3.00 <100 <100 6/19/2008 145.43 ND < 1.00 < 3.00 < 1.00 <4.00 < 3.00 < 5.00 <100 <100 <100 ND ND 1/14/2009 145.43 138.29 <3.00 <1.00 < 6.00 < 3.00 <5.00 <100 <1.00 <100 <100 6/19/2009 145.43 138.26 < 1.00 < 3.00 <1.00 < 6.00 < 3.00 < 5.00 <100 <100 <100 12/22/2009 6/10/2010 145.43 9.05 3.01 ND ND 136.38 <1.00 <1.00 <3.00 <3.00 <1.00 <1.00 <6.00 <6.00 <3.00 <3.00 <5.00 <5.00 <100 <100 <100 <100 <100 <100 142.42 145.43 OW-J 5/27/1998 7/30/1998 146.63 146.63 NG 7.92 NG ND NA 138.71 11 <500 <1.0 <1.0 120 <3 220 2,900 NA NA NA NA NA NA NA NA (GW-1,3) 13,000 20 Total depth 9/11/1998 146.63 8.50 ND 138.13 34 <1.0 1.100 NA NA NA NA 7.87 7.80 138.76 138.83 18 <100 830 2,300 NA NA NA NA = 12.8' 10/26/1998 146.63 ND <1.0 NA NA 11/13/1998 146.63 ND <1.0 <3 NA NA 12/17/1998 146.63 8.56 ND 138.05 43 <1.0 21 2,700 NA NA NA NA 7.52 7.30 ND ND 720 1500 NA NA NA NA NA NA 35 139.33 24 2/9/1999 146.63 NA 139.55 139.10 139.09 <1.0 116 130 NA <50 NA NA 299 NA 3/29/1999 146.63 146.63 7.08 ND ND <1.0 75.2 100 5,150 NA NA 330 4/26/1999 5/27/1999 < 5.0 62 NA 146.63 ND 66 6,500 6/24/1999 7/20/1999 146.63 146.63 ND ND 138.43 138.29 54 <10 3,780 460 473 <1,000 NA <1,000 NA 8.20 <50 <50 <150 <50 NA <1,000 <1.0 <1.0 <3 NA 11/4/1999 146.63 7.50 ND 139.13 < 5.0 < 5.0 < 5.0 <100 <100 <100 146.63 146.63 9.7 1/3/2000 ND 138.93 < 5.0 <100 <100 <100 2/16/2000 139.19 < 5.0 < 5.0 <15 < 5.0 <100 2/25/2000 146.63 7.02 ND 139.61 4.6 <1.0 4.6 260 NS NS NS NS 4/14/2000 146.63 7.61 <100 <100 < 5.0 <100 <15 ND 10.5 8/21/2000 146.63 138.66 < 5.0 < 5.0 <15 < 5.0 <100 <100 <100 <50 150 11/20/2000 146.63 7.74 ND 138.89 322 <5.0 146.63 72.6 3,180 <100 200 2/26/2001 8.63 ND 138.00 < 5.0 <15 6.3 7/16/2001 146.63 7.91 ND 138.72 43 < 5.0 < 5.0 <10 2,700 < 5.0 < 50 129 9/7/2001 146.63 9.59 ND 137.04 < 5.0 146 < 5.0 <50 146.63 512 <50 5/7/2002 7.34 ND 139.29 < 5.0 < 5.0 < 5.0 <10 < 5.0 < 50 < 50 5/20/2004 145.46 ND 137.96 <1.00 <3.0 <1.0 <6.0 144 < 5.0 <100 <100 <100 145.46 145.46 NG ND NA 138.06 11/8/2004 8.1 1,050 <5.0 <5.0 <100 <1.00 6/2/2005 <1.00 <100 <3.0 < 3.0 < 6.0 < 3.0 <100 <100 12/15/2005 145.46 5.71 ND 139.75 <1.00 < 3.00 <1.00 <4.00 < 3.00 < 5.00 <100 <100 <100 ND ND 6/26/2006 12/13/2006 6.26 7.15 <1.00 <1.00 <100 145.46 138.31 <1.00 < 3.00 <1.00 < 6.00 3.70 < 5.00 <100 <100 <100 7/10/2007 1/7/2008 145.46 7.59 ND 137.87 <1.00 <3.00 <1.00 <6.00 8.12 < 5.00 <100 <100 138.45 <6.00 <100 <100 <100 145.46 7.01 <1.00 <3.00 <1.00 4.22 5.01 6/19/2008 145.46 ND 138.14 < 1.00 < 3.00 <1.00 <4.00 < 5.00 <100 <100 <100 1/14/2009 145.46 6.88 ND 138.58 <1.00 <3.00 <1.00 < 6.00 13.5 < 5.00 <100 <100 <100 6/19/2009 145.46 6.75 ND 138.71 < 1.00 < 3.00 <1.00 < 6.00 8.09 < 5.00 <100 <100 <100 12/22/2009 145.46 6.90 ND 138.56 <1.00 <3.00 <1.00 < 6.00 < 3.00 < 5.00 <100 <100 <100

17.7

<5.00

< 5.0

<100

<75.0

<100

<25.0

<100

<25.0

< 6.00

<15.0

7.61 6.93

145.46 145.46

6/28/2011

ND ND 137.85 138.53 <1.00

< 5.0

<3.00 <1.00

< 5.0 < 5.0

Screen	mpling Date													
OW-K (GW-I,3) 8/20/ 3-16' 11/4/ 8-21/- 1/3/2 41/4/ 8-21/- 1/3/2 41/4/ 8-21/- 1/3/2 41/4/ 8-21/- 1/3/2 41/4/ 8-21/- 1/3/2 41/4/ 8-21/- 1/3/2 6-20/- 6-20/- 6-20/- 6-20/- 6-20/- 6-20/- 6-20/- 6-20/- 6-20/- 6-20/- 6-20/- 6-20/- 6-20/- 7/10/- 7/10/- 7/10/- 7/10/- 6-20/- 6-	mping Date	Top of Casing Elevation (ft)	Depth to Water (ft)	Depth to LNAPL (ft)	Ground Water Elevation (ft)	Benzene (µg/l)	Toluene (µg/l)	Ethyl- benzene (μg/l)	Total Xylenes (µg/l)	MTBE (μg/l)	Naph- thalene (μg/l)	C ₅ -C ₈ Aliphatics (µg/l)	C ₉ -C ₁₂ Aliphatics (µg/l)	C ₉ -C ₁₀ Aromatics (µg/l)
OW-K (GW-I,3) 8/20/ 3-16' 11/4/ 8-21/- 1/3/2 41/4/ 8-21/- 1/3/2 41/4/ 8-21/- 1/3/2 41/4/ 8-21/- 1/3/2 41/4/ 8-21/- 1/3/2 41/4/ 8-21/- 1/3/2 6-20/- 6-20/- 6-20/- 6-20/- 6-20/- 6-20/- 6-20/- 6-20/- 6-20/- 6-20/- 6-20/- 6-20/- 6-20/- 7/10/- 7/10/- 7/10/- 7/10/- 6-20/- 6-20/- 6-20/- 6-20/- 7/10/- 6-20/- 6-				W-1		5	1,000	700	10,000	70	140	300	700	200
(GW-1,3) 8-200 3-16' 11144' 8-201 1144' 8-201 1149' 6-202 6-202 11515' 6-266' 6	Standards			W-2		2,000	50,000	20,000	3,000	50,000	700	3,000	5,000	4,000
(GW-1,3) 8-200 3-16' 11144' 8-201 1144' 8-201 1149' 6-202 6-202 11515' 6-266' 6	C/24/1000	145.14		W-3	107.11	10,000	40,000	5,000	5,000	50,000	20,000	50,000	50,000	50,000
3-16' 1144' 1/32'	8/20/1999	145.14 145.14	8.03 8.10	ND ND	137.11 137.04	<1.0	<5.0 <5.0	<5.0 <5.0	<15 <15	554 662	<5.0	<100 <100	<100 <100	<100 <100
1/3/2 411/4 821/4 11/10 11/1	11/4/1999	145.14	6.81	ND	138.33	<1.0	<5.0	<5.0	<15	321	<5.0	<100	<100	<100
S211.7 11/20 12/	1/3/2000	145.14	7.34	ND	137.80	<1.0	<5.0	<5.0	<15	340	<5.0	<100	<100	<100
11/20/ 5200/20 11/18/ 6202/20 12/15/ 626/20 12/15/ 626/20 12/13/ 13/13/	4/14/2000	145.14	6.91	ND	138.23	<1.0	< 5.0	< 5.0	<15	185	< 5.0	<100	<100	<100
S200/ 11/18 620/ 620/2000 12/15 626/200 12/15 7/10/200 17/12/ 17/20/ 619/20 628/20 638/20 649/20 	8/21/2000	145.14	7.52	ND	137.62	<1.0	<5.0	< 5.0	<15	165	< 5.0	<100	<100	<100
11/18 620/20 620/20 620/20 620/20 620/20 620/20 620/20 620/20 620/20 620/20 620/20 7/10/20 7/10/20 619/20 619/20 619/20 619/20 619/20 619/20 619/20 619/20 619/20 619/20 619/20 620	11/20/2000	145.14 143.97	6.91 7.00	ND ND	138.23 136.97	<5.0	<5.0	<5.0 <1.0	<10 <6.0	192 388	<5.0 <5.0	<50 <100	<50 <100	<50 <100
620/20 620/20 620/20 12/13 626/20 12/13 626/20 12/13 7/10/20 17/12 17/20 61/9/	11/18/2004	143.97	NG	NG	NA	<1.00	<3.0	<1.0	<6.0	591	<5.0	<100	<100	<100
1215	6/20/2005	143.97	6.79	ND	137.18	<1.00	<3.0	<1.0	<6.0	54.1	<5.0	<100	<100	<100
121.50 626.20 121.31 121.50 1	20/2005 Dup	143.97	6.79	ND	137.18	<1.00	<3.0	<1.0	< 6.0	68	< 5.0	<100	<100	<100
626/09 12/33 12/	12/15/2005	143.97	5.08	ND	138.89	<1.00	<3.00	<1.00	<4.00	7.68	< 5.00	<100	<100	<100
626/09 12/33 12/	Dun	143.97	5.08	ND	138.89	<1.00	<3.0	<1.0	<4.0	10.1	<5.0	<100	<100	<100
12/13/ 12/13/ 12/13/ 17/20/ 18/20/ 1	6/26/2006 Dup	143.97 143.97	5.01	ND ND	138.96 138.96	<1.00	<3.00	<1.00	<4.00 <4.00	< 3.00	<5.00 <5.00	<100	<100 <100	<100 <100
OW.L (GW-I,3) 3-16' 17/10 OW.M (GW-I,3)	12/13/2006 12/13/2006	143.97	6.65	ND ND	137.32	<1.00	<3.00	<1.00	<6.00	65.8	<5.00	<100	<100	<100
7/10/20 7/10/20 7/10/20 1/7/2 1/7/20 6/19/20 6	12/13/2000	143.97	6.65	ND	137.32	<1.00	<3.00	<1.00	<6.00	65.3	<5.00	<100	<100	<100
17/2 17/20	7/10/2007	143.97	7.31	ND	136.66	<1.00	<3.00	<1.00	<6.00	52.0	< 5.00	<100	<100	<100
1/2/02	10/2007 Dup	143.97	7.31	ND	136.66	<1.00	<3.00	<1.00	< 6.00	46.9	< 5.00	<100	<100	<100
619/20 619/20 17/44 17/4/20 619/20 619/20 619/20 611/20 628/2 OW-L (GW-1,3) 11/4/ 3-16' 17/22 619/20 628/2 17/18 626/6 77/10/ 649/2 649/	7/2008	143.97	6.65	ND	137.32	<1.00	<3.00	<1.00	<6.00	102.0	<5.00	<100	<100	<100
6.19.200 1.14/20 6.19.20 6.19.200 1.22.22 1.22.22 1.22.22 6.11.20 6.11.20 6.11.20 6.11.20 6.11.20 6.11.20 6.11.20 6.11.20 6.12	6/19/2008 dup	143.97 143.97	6.65	ND ND	137.32 137.05	<1.00	<3.00	<1.00	<6.00 <4.00	98.3 47.7	<5.00 <100	<100 <100	<100 <100	<100 <100
11442 11420 1142	19/2008 Dup	143.97	6.92	ND	137.05	<1.00	<3.00	<1.00	<4.00	45.3	<100	<100	<100	<100
1/14/20 6/19/20 6/19/20 6/19/20 6/19/20 6/11/2 6/11/2 6/11/2 6/28/2 6/28/	1/14/2009	143.97	6.40	ND	137.57	<1.00	<3.00	<1.00	<6.00	18.6	<5.00	<100	<100	<100
641920 6119200 12/222 12/22/26 64117 641120 624/4 OW-L (GW-1,3) 11/4/4 6200 11/18 6200 11/18 6200 11/18 6200 11/18 6200 11/18 64190 11/	/14/2009 dup	143.97	6.40	ND	137.57	<1.00	<3.00	<1.00	< 6.00	18.9	< 5.00	<100	<100	<100
1222 12226 6117.6117.06117.06117.06117.06117.06117.06117.0617.06	6/19/2009	143.97	5.92	ND	138.05	<1.00	<3.00	<1.00	< 6.00	8.06	< 5.00	<100	<100	<100
0W.I. 624/(GW-1.3) 11/4/(6192) 12/22/(6194) 11/4/(6192) 12/22/(6194) 11/4/(6192) 12/22/(6194) 11/4/(6194) 12/22/(6194) 11/4/(6194) 12/22/(6194) 11/4/(6194) 12/22/(6194) 11/4/(6194) 12/22/(6194) 11/4/(6194) 12/22/(6194) 11/4/(6194) 12/22/(6194) 11/4/(6194) 12/22/(6194) 11/4/(6194) 12/22/(6194) 11/4/(6194) 12/22/(6194) 11/4/(6194) 12/22/(6194) 11/4/(6194) 12/22/(6194) 11/4/(6194) 12/22/(6194) 11/4/(61	19/2009 Dup	143.97	5.92	ND	138.05	<1.00	<3.00	<1.00	<6.00	5.68	< 5.00	<100	<100	<100
G1172 G287 G287 	12/22/2009	143.97	6.37	ND	137.60	<1.00	<3.00	<1.00	<6.00	9.95	<5.00	<100	<100	<100
6/11/20 628/ OW-L 628/ (GW-1,3) 11/4/ 3-16' 11/32 225/ 11/18 620/ 7/10/ 61/97 11/44/ 61/97 11/44/ 61/97 11/44/ 821/14 821/14 821/14 11/20 226/ 7/16/ 7/16/ 11/20 12/26/	6/11/2010	143.97 143.97	6.37 7.34	ND ND	137.60 136.63	<1.00	<3.00	<1.00	<6.00 <6.00	9.30 18.9	<5.00 <5.00	<100 <100	<100 <100	<100 <100
OW-L (GW-I,3) 11/4/ 3-16' 11/3/ 3-16' 12/3/ 12/3/ 12/3/ 12/15 6266 7/100 17/2 6199 17/4 6199 17/4 6499 17/	11/2010 Dup	143.97	7.34	ND	136.63	<1.00	<3.00	<1.00	<6.00	17.8	<5.00	<100	<100	<100
(GW-1,3) 11144/ 3-16' 1/32 2/25/ 11/18 620/ 620/ 7/10/ 619/ 17/2 6119/ 649/ 17/4 649/ 649/ 12/22 6111/ OW-M 624/ 6W-1,3) 10/13/ 3-16' 11/4/ 821/ 821/ 11/20 226/ 71/6/ 71/6/ 11/20	6/28/2011	143.97	6.41	ND	137.56	< 5.0	< 5.0	< 5.0	<15.0	< 5.0	< 5.0	<75.0	<25.0	<25.0
(GW-1,3) 11144/ 3-16' 1/32 2/25/ 11/18 620/ 620/ 7/10/ 619/ 17/2 6119/ 649/ 17/4 649/ 649/ 12/22 6111/ OW-M 624/ 6W-1,3) 10/13/ 3-16' 11/4/ 821/ 821/ 11/20 226/ 71/6/ 71/6/ 11/20														
3-16' 1/3/2 225/5/ 225/5/ 11/18 620(12/15/ 626(77100' 11/4/ 6192(11/4/ 6193(10/13) 3-16' 11/4/ 82/14' 82/14' 82/14' 82/14' 82/14' 82/14' 11/20 2266' 77160' 11/20'	6/24/1999	144.28	6.40	ND	137.88	<1.0	<5	<5	<15	11.8	<5	<100	<100	<100
225/6 11/18/ 620/6 12/15/ 626/6 77/00/11/7/2 6199/6 11/4/6199/6 12/22/611/2 0W-M (GW-I,3) 10/13/ 3-16' 11/4/4 42/14/4 82/17/6 7/16/6 7/16/6 1/22/6	1/3/2000	144.28 144.28	5.45 5.90	ND ND	138.83 138.38	<1.0	<5.0 <5.0	<5.0 <5.0	<15 <15	<5.0 5.7	<5.0 <5.0	<100	<100 <100	<100
1/188 6207 12/15/ 6266 77/16/ 6266 77/16/ 6199 77/00 17/12 6199 77/00 17/14 6199 77/00 17/14 6199 77/00 17/14 6199 77/16/ 6199 77/16/ 6199 77/16/ 6199 77/16/ 624/ 621/ 621/ 621/ 621/ 621/ 621/ 621/ 621	2/25/2000	144.28	4.05	ND	140.23	<1.0	<1.0	<1.0	<3	<1.0	NS NS	NS	NS NS	NS
12155 6267 77100 1772 61997 17144 61997 12222 61117 OW-M (GW-1,3) 10133 3-16' 11144 42147 82117 1120 22667 7166 1222	11/18/2004	143.14	NG	NG	NA	<1.00	<3.0	<1.0	<6.0	<3.0	<5.0	<100	<100	<100
626/5 7107 6195/ 6195/ 17/2 6195/ 11/44 6195/ 6197 OWM 624/4 (GW-1,3) 10/13/3 3-16' 11/4/4 82/11/ 11/20 2266/ 7116/ 11/20/ 1/20/	6/20/2005	143.14	5.25	ND	137.89	<1.00	<3.0	<1.0	< 6.0	<3.0	< 5.0	<100	<100	<100
7/10/ 1/72 6/19/ 1/14/ 6/19/ 1/14/ 6/19/ 1/222/ 6/11/ 0W-M (GW-I,3) 10/13/ 3-16' 11/4/ 4/14/ 8/21/ 1/120	12/15/2005	143.14	3.44	ND	139.70	<1.00	<3.00	<1.00	<4.00	<3.00	< 5.00	<100	<100	<100
1/7/2 619/ 1/14/4 6419/ 1/222 6111/, 0W-M 624/ (GW-1,3) 10/13/ 3-16' 11/4/ 8211/ 11/20 2266/ 7/166/ 7/166/ 1/22/	6/26/2006	143.14 143.14	4.03 5.78	ND ND	139.11 137.36	<1.00	<3.00	<1.00	<4.00 <6.00	<3.00	<5.00	<100 <100	<100 <100	<100 <100
619/, 1744/ 619/, 1222/ 6117. OWM 624/, (GW-1,3) 10133 3-16' 11/4/ 414/, 821/, 11/20 226/, 71/66/ 122/,	1/7/2008	143.14	5.78	ND ND	137.36	<1.00	<3.00	<1.00	<6.00	<3.00	<5.00	<100	<100	<100
0W-M (GW-1,3) 10/13/ 3-16' 11/4' 8211/ 4/14' 8211/ 1/20' 12/2' 7/16' 1/20'	6/19/2008	143.14	5.47	ND	137.67	<1.00	<3.00	<1.00	<4.00	<3.00	<5.00	<100	<100	<100
OW-M 624/ (GW-1,3) 10133 3-16' 11/4' 4144' 8211' 11/20' 2266' 7166' 1222'	1/14/2009	143.14	4.91	ND	138.23	<1.00	< 3.00	<1.00	< 6.00	< 3.00	< 5.00	<100	<100	<100
OW-M 6/24/ (GW-1,3) 10/13/ 3-16' 11/44/ 4/14/ 8/21/ 11/20 2/26/ 7/16/ 1/22/	6/19/2009	143.14	4.14	ND	139.00	<1.00	<3.00	<1.00	<6.00	<3.00	< 5.00	<100	<100	<100
OW-M 6/24// (GW-1,3) 10/13/ 3-16' 11/4// 4/14/4 8/21/1- 11/20/ 2/26/ 7/16// 1/22/	12/22/2009 6/11/2010	143.14	4.97 5.90	ND ND	138.17 137.24	<1.00	<3.00	<1.00	<6.00	<3.00	<5.00	<100 <100	<100 <100	<100
(GW-1,3) 10/13/ 3-16' 11/4/ 4/14/7 8/21/7 11/20/ 2/26/7 7/16/7	0/11/2010	143.14	5.90	ND	137.24	<1.00	< 5.00	<1.00	<6.00	<3.00	<5.00	<100	<100	<100
(GW-1,3) 10/13/ 3-16' 11/4/ 4/14/2 8/21/ 11/20/ 2/26/ 7/16/ 1/22/	6/24/1999	144.00	7.26	ND	136.74	<1.0	<5	<5	<15	7.5	<5	<100	<100	<100
4/14// 8/21/ ² 11/20/ 2/26/ ² 7/16/ ² 1/22/ ²	10/13/1999	144.00	16.64	ND	127.36	<1.0	<5.0	< 5.0	<15	376	< 5.0	<100	<100	<100
8/21/2 11/20/ 2/26/2 7/16/2 1/22/2	11/4/1999	144.00	6.11	ND	137.89	<1.0	< 5.0	< 5.0	<15	< 5.0	< 5.0	<100	<100	<100
11/20/ 2/26/2 7/16/2 1/22/2	4/14/2000	144.00	6.04	ND	137.96	<1.0	<5.0	<5.0	<15	<5.0	<5.0	<100	<100	<100
2/26/2 7/16/2 1/22/2	8/21/2000 11/20/2000	144.00	6.14	ND ND	137.86	<1.0	<5.0	<5.0	<15 <10	15.2	<5.0	<100 <50	<100 <50	<100
7/16/2 1/22/2	2/26/2001	144.00 144.00	6.03 5.57	ND ND	137.97 138.43	<5.0 <1.0	<5.0 <5.0	<5.0 <5.0	<10	<5.0 972	<5.0 <5.0	680	<100	<100
1/22/2	7/16/2001	144.00	6.21	ND	137.79	<5.0	<5.0	<5.0	<5.0	13.3	<5.0	<50	<50	<50
5/7/2	1/22/2002	144.00	6.81	ND	137.19	<5.0	<5.0	<5.0	<10	18.1	<5.0	<50	<50	<50
	5/7/2002	144.00	5.92	ND	138.08	< 5.0	< 5.0	< 5.0	<10	15.1	< 5.0	<50	<50	<50
	6/20/2005	142.81	5.93	ND	136.88	< 1.00	< 3.00	< 1.00	< 6.0	11.4	< 5.0	<100	<100	<100
		142.81	4.25 6.35	ND ND	138.56	<1.00	13.1	<1.00	<4.00	<3.00	<5.00	<100	<100	<100
111201	6/26/2006	142.81	5.72	ND ND	136.46 137.09	<1.00	<3.00	<1.00	<6.00	<3.00	<5.00 <5.00	<100 <100	<100 <100	<100
	7/10/2007	142.81	5.82	ND	137.09	<1.00	<3.00	<1.00	<4.00	<3.00	<5.00	<100	<100	<100
	7/10/2007 1/7/2008		5.20	ND	137.61	<1.00	<3.00	<1.00	<6.00	3.87	< 5.00	<100	<100	<100
6/19/2	7/10/2007	142.81												
	7/10/2007 1/7/2008 6/19/2008 1/14/2009 6/19/2009	142.81 142.81	4.70	ND	138.11	<1.00	<3.00	<1.00	< 6.00	<3.00	< 5.00	<100	<100	<100
6/10/2	7/10/2007 1/7/2008 6/19/2008 1/14/2009 6/19/2009 12/22/2009						<3.00 <3.00 <3.00	<1.00 <1.00 <1.00	<6.00 <6.00	<3.00 <3.00 <3.00	<5.00 <5.00 <5.00	<100 <100 <100	<100 <100 <100	<100 <100 <100

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Well No. (GW Class) Screen Interval (ft.)	Sampling Date	Top of Casing Elevation (ft)	Depth to Water (ft)	Depth to LNAPL (ft)	Ground Water Elevation (ft)	Benzene (μg/l)	Toluene (μg/l)	Ethyl- benzene (μg/l)	Total Xylenes (µg/l)	MTBE (µg/l)	Naph- thalene (µg/l)	C ₅ -C ₈ Aliphatics (µg/l)	C ₉ -C ₁₂ Aliphatics (µg/l)	C ₉ -C ₁₀ Aromatics (µg/l)
			G	W-1		5	1,000	700	10,000	70	140	300	700	200
MCP Metho	d 1 Standards		G	W-2		2,000	50,000	20,000	3,000	50,000	700	3,000	5,000	4,000
			G	W-3		10,000	40,000	5,000	5,000	50,000	20,000	50,000	50,000	50,000
OW-N	8/20/1999	150.65	13.00	ND	137.65	4.3	< 5.0	5.8	<15	475	< 5.0	<100	<100	<100
(GW-1,2,3)	11/4/1999	150.65	12.03	ND	138.62	<1.0	< 5.0	< 5.0	<15	5.7	< 5.0	<100	<100	<100
12-20'	11/22/1999	150.65	12.33	ND	138.32	<1.0	< 5.0	< 5.0	<15	36.6	< 5.0	<100	<100	<100
	1/3/2000	150.65	12.40	ND	138.25	<1.0	< 5.0	< 5.0	<15	73	< 5.0	<100	<100	<100
	4/14/2000	150.65	12.03	ND	138.62	<1.0	< 5.0	< 5.0	<15	< 5.0	<5.0	<100	<100	<100
	8/21/2000	150.65	12.53	ND	138.12	<1.0	<5.0	<5.0	<15	6.4	<5.0	<100	<100	<100
	11/20/2000	150.65	12.03	ND	138.62	<5.0	<5.0	<5.0	<10	<5.0	<5.0	<50	<50	<50
	2/26/2001	150.65	12.02	ND	138.63	<1.0	<5.0	<5.0	<15 <10	<5.0 173	<5.0	<100	<100	<100
	7/16/2001 9/7/2001	150.65 150.65	13.10 13.51	ND ND	137.55 137.14	<5.0 <5.0	<5.0 <5.0	<5.0 <5.0	<10	1,270	<5.0 <5.0	<50 <50	<50 <50	<50 <50
	1/22/2002	150.65	12.76	ND	137.14	<5.0	<5.0	<5.0	<10	11.5	<5.0	<50	<50	<50
	5/7/2002	150.65	11.74	ND	137.89	<5.0	<5.0	<5.0	<10	281	<5.0	<50	<50	<50
	10/2/2002	149.45	13.08	ND	136.37	<2.0	<2.0	<2.0	<4.0	131	<3.0	<50	<50	<50
	5/10/2003	149.45	11.42	ND	138.03	<1.0	<1.0	<1.0	<1.0	<1.0	NS	NS	NS	NS
	11/13/2003	149.45	12.26	ND	137.19	<1.0	<1.0	<1.0	<1.0	<1.0	NS	NS	NS	NS
	5/20/2004	149.45	11.97	ND	137.48	<1.00	<3.0	<1.0	< 6.0	<3.0	< 5.0	<100	<100	<100
	6/2/2005	149.45	11.62	ND	137.83	<1.00	<3.0	<1.0	< 6.0	<3.0	< 5.0	<100	<100	<100
	12/15/2005	149.45	10.70	ND	138.75	<1.00	< 3.00	<1.00	<4.00	< 3.00	< 5.00	<100	<100	<100
	6/26/2006	149.45	10.61	ND	138.84	<1.00	< 3.00	<1.00	<4.00	< 3.00	< 5.00	<100	<100	<100
	7/10/2007	149.45	12.60	ND	136.85	<1.00	<3.00	<1.00	< 6.00	3.02	< 5.00	<100	<100	<100
	1/7/2007	149.45	11.73	ND	137.72	<1.00	< 3.00	<1.00	< 6.00	< 3.00	< 5.00	<100	<100	<100
	6/19/2008	149.45	12.20	ND	137.25	<1.00	<3.00	<1.00	<4.00	<3.00	< 5.00	<100	<100	<100
	1/14/2009	149.45	11.61	ND	137.84	<1.00	<3.00	<1.00	< 6.00	<3.00	< 5.00	<100	<100	<100
	6/19/2009	149.45	11.50	ND	137.95	<1.00	<3.00	<1.00	<6.00	<3.00	< 5.00	<100	<100	<100
	12/22/2009 6/11/2010	149.45 149.45	11.65 12.41	ND ND	137.80 137.04	<1.00	<3.00	<1.00	<6.00 <6.00	<3.00 4.49	<5.00 <5.00	<100 <100	<100 <100	<100 <100
	0/11/2010	147.43	12.71	ND	137.04	<1.00	₹3.00	₹1.00	₹0.00	7.77	₹3.00	<100	<100	<100
OW-O	8/20/1999	148.84	17.67	ND	131.17	<1.0	<5.0	< 5.0	<15	273	<5.0	<100	<100	<100
(GW-1,3)	11/4/1999	148.84	16.02	ND	132.82	<1.0	<5.0	<5.0	<15	314	< 5.0	<100	<100	<100
12-22'	1/3/2000	148.84	16.56	ND	132.28	<1.0	< 5.0	< 5.0	<15	284	< 5.0	<100	<100	<100
	4/14/2000	148.84	15.29	ND	133.55	<1.0	< 5.0	< 5.0	<15	202	< 5.0	<100	<100	<100
	8/21/2000	148.84	16.87	ND	131.97	<1.0	< 5.0	< 5.0	<15	249	< 5.0	<100	<100	<100
	11/20/2000	148.84	16.01	ND	132.83	< 5.0	< 5.0	< 5.0	< 5.0	54.5	< 5.0	< 50	<50	<50
	2/26/2001	148.84	7.04	ND	141.80	<1.0	< 5.0	< 5.0	<15	13.9	< 5.0	<100	<100	<100
	7/16/2001	148.84	17.33	ND	131.51	< 5.0	< 5.0	< 5.0	<10	343	< 5.0	<50	<50	<50
	9/7/2001	148.84	17.98	ND	130.86	<5.0	< 5.0	< 5.0	<10	464	<5.0	<50	<50	<50
	1/22/2002	148.84	17.38	ND	131.46	<5.0	<5.0	<5.0	<10	556	<5.0	<50	<50	<50
	5/7/2002	148.84	15.35	ND	133.49	<5.0	<5.0	<5.0	6	324 399	<5.0	<50	<50	<50
	10/2/2002 5/10/2003	144.58 144.58	17.62 15.41	ND ND	126.96 129.17	<2.0	<2.0	<2.0	<4.0	176	<3.0 NS	<50 NS	<50 NS	<50 NS
	5/20/2004	144.58	15.34	ND	129.17	<1.00	<3.0	<1.0	<6.0	232	<5.0	<100	<100	<100
	11/18/2004	144.58	NG	NG	NA	<1.00	<3.0	<1.0	<6.0	211	8.6	<100	<100	<100
	6/20/2005	144.58	15.46	ND	129.12	<1.00	<3.0	<1.0	<6.0	150	< 5.0	<100	<100	<100
	12/15/2005	144.58	12.22	ND	132.36	<1.00	<3.00	<1.00	<4.00	<3.00	<5.00	<100	<100	<100
	6/26/2006	144.58	12.63	ND	131.95	<1.00	<3.00	<1.00	<4.00	4.57	<5.00	<100	<100	<100
	12/13/2006	144.58	14.71	ND	129.87	<1.00	<3.00	<1.00	<6.00	45.1	< 5.00	<100	<100	<100
	7/10/2007	144.58	16.36	ND	128.22	<1.00	<3.00	<1.00	< 6.00	37.0	< 5.00	<100	<100	<100
	1/7/2008	144.58	15.62	ND	128.96	<1.00	< 3.00	<1.00	< 6.00	34.6	< 5.00	<100	<100	<100
	6/19/2008	144.58	15.18	ND	129.40	<1.00	<3.00	<1.00	<4.00	28.8	< 5.00	<100	<100	<100
	1/14/2009	144.58	14.27	ND	130.31	<1.00	< 3.00	<1.00	< 6.00	4.20	< 5.00	<100	<100	<100
	6/19/2009	144.58	15.72	ND	128.86	<1.00	<3.00	<1.00	< 6.00	15.30	< 5.00	<100	<100	<100
	12/22/2009	144.58	14.48	ND	130.10	<1.00	<3.00	<1.00	<6.00	<3.00	<5.00	<100	<100	<100
	6/11/2010	144.58	16.75	ND ND	127.83 129.76	<1.00	< 3.00	<1.00	<6.00 <15.0	7.56 <5.0	<5.00 <5.0	<100 <75.0	<100 <25.0	<100 <25.0
	6/28/2011	144.58	14.82											

Andover, MA														
Well No. (GW Class) Screen Interval (ft.)	Sampling Date	Top of Casing Elevation (ft)	Depth to Water (ft)	Depth to LNAPL (ft)	Ground Water Elevation (ft)	Benzene (μg/l)	Toluene (µg/l)	Ethyl- benzene (µg/l)	Total Xylenes (µg/l)	MTBE (μg/l)	Naph- thalene (µg/l)	C ₅ -C ₈ Aliphatics (µg/l)	C ₉ -C ₁₂ Aliphatics (µg/l)	C ₉ -C ₁₀ Aromatics (µg/l)
				W-1		5	1,000	700	10,000	70	140	300	700	200
MCP Method	l 1 Standards			W-2 W-3		2,000 10,000	50,000 40,000	20,000 5,000	3,000 5,000	50,000	700 20,000	3,000 50,000	5,000 50,000	4,000 50,000
OW-P	8/20/1999	148.60	15.70	ND	132.90	<1.0	<5.0	<5.0	<15	71.5	<5.0	<100	<100	<100
(GW-1,3)	10/13/1999	148.60	14.65	ND	133.95	<1.0	<5.0	<5.0	<15	82.7	<5.0	<100	<100	<100
12-22'	11/4/1999	148.60	14.09	ND	134.51	<1.0	< 5.0	< 5.0	<15	67.2	<5.0	<100	<100	<100
	1/3/2000	148.60	14.78	ND	133.82	<1.0	< 5.0	< 5.0	<15	66.1	< 5.0	<100	<100	<100
	4/14/2000	148.60	13.24	ND	135.36	<1.0	<5.0	<5.0	<15	26.3	<5.0	<100	<100	<100
	11/20/2000 5/10/2003	148.60 144.36	13.88	ND ND	134.72 131.28	<5.0 <2.0	<5.0 <2.0	<5.0 <2.0	<10 <4.0	5.5 2.7	<5.0	<50 <50	<50 <50	<50 <50
	5/20/2004	144.36	13.77	ND	130.59	<1.00	<3.0	<1.0	<6.0	9.1	<5.0	<100	<100	<100
	11/18/2004	144.36	NG	NG	NA	<1.00	<3.0	<1.0	< 6.0	<3.0	< 5.0	<100	<100	<100
	6/20/2005	144.36	13.62	ND	130.74	<1.00	<3.0	<1.0	<6.0	<3.0	< 5.0	<100	<100	<100
	12/15/2005	144.36	9.23	ND	135.13	<1.00	<3.00	<1.00	<4.00	<3.00	<5.00	<100	<100	<100
	6/26/2006 7/10/2007	144.36 144.36	10.46	ND ND	133.90 130.03	<1.00 <1.00	<3.00	<1.00	<4.00 <6.00	<3.00	<5.00 <5.00	<100 <100	<100 <100	<100 <100
	1/7/2008	144.36	12.35	ND	132.01	<1.00	<3.00	<1.00	<6.00	<3.00	<5.00	<100	<100	<100
	6/19/2008	144.36	12.19	ND	132.17	<1.00	<3.00	<1.00	<4.00	<3.00	<5.00	<100	<100	<100
	1/14/2009	144.36	11.00	ND	133.36	<1.00	<3.00	<1.00	< 6.00	<3.00	< 5.00	<100	<100	<100
	6/19/2009	144.36	12.48	ND	131.88	<1.00	<3.00	<1.00	<6.00	<3.00	<5.00	<100	<100	<100
	12/22/2009 6/11/2010	144.36 144.36	11.19 14.58	ND ND	133.17 129.78	<1.00 <1.00	<3.00	<1.00	<6.00 <6.00	<3.00	<5.00 <5.00	<100 <100	<100 <100	<100 <100
	0.11,2010	177.30	11.50	.,12	127.70	×1.00	~5.00	~1.00	.0.00	~5.00		~100	-100	~100
OW-Q	11/22/1999	146.91	7.85	ND	139.06	<1.0	<5.0	<5.0	<15	<5.0	<5.0	<100	<100	<100
(GW-1,3)	1/3/2000	146.91	9.30	ND	137.61	<1.0	< 5.0	< 5.0	<15	6.1	< 5.0	<100	<100	<100
2-12'	4/14/2000 8/21/2000	146.91 146.91	7.51 8.99	ND ND	139.40 137.92	<1.0	<5.0	<5.0	<15 <15	62.3 11.7	<5.0	<100 <100	<100 <100	<100 <100
	11/20/2000	146.91	8.99	ND ND	137.92	<5.0	<5.0 <5.0	<5.0 <5.0	<10	<5.0	<5.0 <5.0	<50	<50	<50
	2/26/2001	146.91	6.38	ND	140.53	<1.0	<5.0	<5.0	<15	15.1	<5.0	<100	<100	<100
	7/16/2001	146.91	7.02	ND	139.89	< 5.0	< 5.0	< 5.0	<10	6.2	<5.0	<50	<50	<50
	1/22/2002	146.91	9.23	ND	137.68	< 5.0	< 5.0	< 5.0	<10	< 5.0	< 5.0	<50	<50	<50
	5/7/2002 6/20/2005	146.91 142.68	7.55 6.04	ND ND	139.36 136.64	<5.0	<5.0	<5.0	<10	5.2	<5.0	<50 < 100	<50 <100	<50
	12/15/2005	142.68	3.73	ND ND	136.64	< 1.00	< 3.00	< 1.00	< 6.0 <4.00	< 3.00	<5.00 <5.00	< 100	<100	< 100 < 100
	6/26/2006	142.68	5.09	ND	137.59	<1.00	<3.00	<1.00	<4.00	<3.00	<5.00	<100	<100	<100
	12/13/2006	142.68	5.67	ND	137.01	<1.00	< 3.00	<1.00	< 6.00	<3.00	< 5.00	<100	<100	<100
	7/10/2007	142.68	6.18	ND	136.50	<1.00	<3.00	<1.00	<6.00	<3.00	< 5.00	<100	<100	<100
	1/7/2008 6/19/2008	142.68 142.68	5.83	ND ND	136.85 136.88	<1.00	<3.00	<1.00	<6.00 <4.00	<3.00	<5.00 <5.00	<100 <100	<100 <100	<100 <100
	1/14/2009	142.68	5.55	ND	137.13	<1.00	<3.00	<1.00	<6.00	<3.00	<5.00	<100	<100	<100
	6/19/2009	142.68	5.01	ND	137.67	<1.00	<3.00	<1.00	<6.00	<3.00	< 5.00	<100	<100	<100
	12/22/2009	142.68	5.53	ND	137.15	<1.00	<3.00	<1.00	< 6.00	<3.00	< 5.00	<100	<100	<100
	6/10/2010	142.68	8.88	ND	133.80	<1.00	<3.00	<1.00	<6.00	<3.00	< 5.00	<100	<100	<100
OW-R	11/22/1999	140.23	8.52	ND	131.71	<1.0	<5.0	<5.0	<15	11	<5.0	<100	<100	<100
(GW-1,3)	1/3/2000	140.23	8.97	ND	131.26	<1.0	<5.0	<5.0	<15	35.6	<5.0	<100	<100	<100
8-18'	4/14/2000	140.23	7.01	ND	133.22	<1.0	<5.0	< 5.0	<15	32.9	<5.0	<100	<100	<100
	8/21/2000	140.23	8.92	ND	131.31	<1.0	<5.0	<5.0	<15	<5.0	<5.0	<100	<100	<100
	2/26/2001 7/16/2001	140.23 140.23	9.59	ND ND	130.64 130.12	<1.0	<5.0 <5.0	<5.0 <5.0	<15 <5.0	19.7 9.1	<5.0 <5.0	<100 <50	<100 <50	<100 <50
	1/22/2002	140.23	9.62	ND	130.12	<5.0	<5.0	<5.0	<10	<5.0	<5.0	<50	<50	<50
	5/7/2002	140.23	6.94	ND	133.29	< 5.0	< 5.0	< 5.0	<10	< 5.0	<5.0	<50	<50	<50
	10/2/2002	135.93	9.24	ND	126.69	< 2.0	<2.0	<2.0	<4.0	<2.0	<3.0	<50	<50	<50
	5/20/2004	135.93	7.32	ND	128.61	<1.00	<3.0	<1.0	<6.0	<3.0	<5.0	<100	<100	<100
	11/18/2004 6/20/2005	135.93 135.93	NG 7.15	NG ND	NA 128.78	<1.00	<3.0	<1.0	<6.0 <6.0	<3.0	<5.0 <5.0	<100 <100	<100 <100	<100 <100
	6/26/2006	135.93	5.13	ND	130.80	<1.00	<3.00	<1.00	<4.00	<3.00	<5.00	<100	<100	<100
	12/13/2006	135.93	6.38	ND	129.55	<1.00	< 3.00	<1.00	< 6.00	< 3.00	< 5.00	<100	<100	<100
	7/10/2007	135.93	8.21	ND	127.72	<1.00	<3.00	<1.00	<6.00	<3.00	< 5.00	<100	<100	<100
	6/19/2008	135.93	5.94	ND	129.99	<1.00	<3.00	<1.00	<4.00	<3.00	<5.00	<100	<100	<100
	1/14/2009 6/19/2009	135.93 135.93	6.20 7.28	ND ND	129.73 128.65	<1.00	<3.00	<1.00	<6.00 <6.00	<3.00	<5.00 <5.00	<100 <100	<100 <100	<100 <100
	12/23/2009	135.93	7.00	ND	128.93	<1.00	<3.00	<1.00	<6.00	<3.00	<5.00	<100	<100	<100
	6/10/2010	135.93	9.26	ND	126.67	<1.00	<3.00	<1.00	< 6.00	<3.00	< 5.00	<100	<100	<100

Table 2 Concentrations of Volatile Petroleum Hydrocarbons (VPH) Detected in Groundwater

Andover, MA														
Well No. (GW Class) Screen Interval (ft.)	Sampling Date	Top of Casing Elevation (ft)	Depth to Water (ft)	Depth to LNAPL (ft)	Ground Water Elevation (ft)	Benzene (μg/l)	Toluene (µg/l)	Ethyl- benzene (μg/l)	Total Xylenes (µg/l)	MTBE (µg/l)	Naph- thalene (µg/l)	C ₅ -C ₈ Aliphatics (µg/l)	C ₉ -C ₁₂ Aliphatics (µg/l)	C ₉ -C ₁₀ Aromatics (µg/l)
				W-1		5	1,000	700	10,000	70	140	300	700	200
MCP Method	1 1 Standards			W-2		2,000	50,000	20,000	3,000	50,000	700	3,000	5,000	4,000
				W-3		10,000	40,000	5,000	5,000	50,000	20,000	50,000	50,000	50,000
OW-S	11/22/1999	140.29	15.04	ND	125.25	<5.0	<25	<25	<75	30	<25	<500	<500	<500
(GW-1,3) 12-22'	1/3/2000 4/14/2000	140.29 140.29	15.15 14.23	ND ND	125.14 126.06	<1.0 <1.0	<5.0 <5.0	<5.0 <5.0	<15 <15	10.9 9.6	<5.0 <5.0	<100 <100	<100 <100	<100 <100
12-22	8/21/2000	140.29	15.24	ND	125.05	<1.0	<5.0	<5.0	<15	5.7	<5.0	<100	<100	<100
	11/20/2000	140.29	8.45	ND	131.84	<5.0	<5.0	<5.0	<10	<5.0	<5.0	<50	<50	<50
	2/26/2001	140.29	15.43	ND	124.86	<1.0	<5.0	< 5.0	<15	< 5.0	< 5.0	<100	<100	<100
	7/16/2001	140.29	15.75	ND	124.54	< 5.0	< 5.0	< 5.0	<10	< 5.0	< 5.0	<50	<50	<50
	1/22/2002	140.29	15.69	ND	124.60	< 5.0	< 5.0	< 5.0	<10	< 5.0	< 5.0	<50	<50	<50
	5/7/2002	140.29	14.56	ND	125.73	<5.0	<5.0	<5.0	<10	<5.0	<5.0	<50	<50	<50
	10/2/2002 5/10/2003	136.01 136.01	15.78 14.44	ND ND	120.23 121.57	<2.0 <1.0	<2.0	<2.0	<4.0 <1.0	<2.0	<3.0 NS	<50 NS	<50 NS	<50 NS
	6/20/2005	136.01	NR	ND	NA	<1.0	<1.0	<1.0	<1.0	<1.0	< 5.0	<100	<100	<100
	6/26/2006	136.01	12.02	ND	123.99	<1.00	<3.00	<1.00	<4.00	<3.00	<5.00	<100	<100	<100
	12/13/2006	136.01	13.89	ND	122.12	<1.00	<3.00	<1.00	<6.00	<3.00	< 5.00	<100	<100	<100
	1/7/2008	136.01	14.77	ND	121.24	<1.00	< 3.00	<1.00	< 6.00	< 3.00	< 5.00	<100	<100	<100
	6/19/2008	136.01	14.45	ND	121.56	<1.00	<3.00	<1.00	<4.00	<3.00	< 5.00	<100	<100	<100
	1/14/2009	136.01	13.57	ND	122.44	<1.00	<3.00	<1.00	<6.00	<3.00	<5.00	<100	<100	<100
	6/19/2009	136.01	14.56	ND	121.45	<1.00	<3.00	<1.00	<6.00	<3.00	<5.00	<100	<100	<100
	12/23/2009 6/11/2010	136.01 136.01	14.00 14.95	ND ND	122.01 121.06	<1.00 <1.00	<3.00	<1.00	<6.00 <6.00	<3.00	<5.00 <5.00	<100 <100	<100 <100	<100 <100
	6/28/2011	136.01	14.34	ND	121.67	<5.0	<5.0	<5.0	<15.0	<5.0	<5.0	<75.0	<25.0	<25.0
		100.01												
OW-T	10/2/2002	142.90	14.96	ND	127.94	<2.0	< 2.0	<2.0	<4.0	<2.0	<3.0	<50	<50	<50
(GW-1,2,3)	11/13/2003	142.90	14.52	ND	128.38	<1.0	<1.0	<1.0	<1.0	<1.0	NS	NS	NS	NS
9-19'														
OW-U	10/2/2002	142.30	19.46	ND	122.84	<2.0	<2.0	<2.0	<4.0	87.8	<3.0	<50 <50	<50	<50 <50
(GW-1,2,3) 13-23'	11/18/2002 11/13/2003	142.30 142.30	19.04 18.98	ND ND	123.86 123.32	<2.0 <1.0	<2.0 <1.0	<2.0 <1.0	<4.0 <1.0	77.2 52.6	<3.0 NT	NT	<50 NT	NT
13-23	5/20/2004	142.30	18.80	ND	123.52	<1.00	<3.0	<1.0	<6.0	19.9	<5.0	<100	<100	<100
	6/20/2005	142.30	17.64	ND	124.66	<1.00	<3.0	<1.0	<6.0	4.3	<5.0	<100	<100	<100
	6/26/2006	142.30	14.87	ND	127.43	<1.00	< 3.00	<1.00	<4.00	<3.00	< 5.00	<100	<100	<100
	7/10/2007	142.30	18.55	ND	123.75	<1.00	< 3.00	<1.00	< 6.00	8.78	< 5.00	<100	<100	<100
	1/7/2008	142.30	18.65	ND	123.65	<1.00	<3.00	<1.00	<6.00	20.8	< 5.00	<100	<100	<100
	6/19/2008 1/14/2009	142.30 142.30	18.29 16.95	ND ND	124.01 125.35	<1.00 <1.00	<3.00	<1.00	<4.00 <6.00	<3.00	<5.00 <5.00	<100 <100	<100 <100	<100 <100
	6/19/2009	142.30	18.23	ND	124.07	<1.00	<3.00	<1.00	<6.00	6.88	<5.00	<100	<100	<100
	12/23/2009	142.30	17.50	ND	124.80	<1.00	<3.00	<1.00	<6.00	11.1	<5.00	<100	<100	<100
	6/10/2010	142.30	18.67	ND	123.63	<1.00	< 3.00	<1.00	< 6.00	4.61	< 5.00	<100	<100	<100
OW-ER	5/20/1998	Unknown	NG	NG	NA	<1.0	<1.0	<1.0	<3	3	NA	NA	NA	NA
(GW-1,3)	7/30/1998	Unknown	6.44	ND	NA	<1.0	<1.0	<1.0	<3	2	NA	NA	NA	NA
Total depth = 7.15'	9/11/1998 10/26/1998	Unknown Unknown	7.13 6.43	ND ND	NA NA	<1.0 <1.0	<1.0 <1.0	<1.0 <1.0	<3	4 6	NA NA	NA NA	NA NA	NA NA
-7.15	11/13/1998	Unknown	6.39	ND	NA NA	<1.0	<1.0	<1.0	3	7	NA	NA NA	NA NA	NA NA
	12/17/1998	Unknown	6.67	ND	NA	<1.0	<1.0	<1.0	<3	2	NA	NA	NA	NA
	1/6/1999	Unknown	6.13	ND	NA	<1.0	<1.0	<1.0	<3	3	NA	NA	NA	NA
	40.00.00.00													
AS-3	10/2/2002	147.13	9.97	ND	137.16	<2.0	<2.0	<2.0	<4.0	3.3	<3.0	<50	<50	<50
(GW-1,3) 17.5-20'							-							
AS-6	10/2/2002	147.65	9.50	ND	138.15	80.3	135	544	2,397	3,930	172	<500	1,120	4,220
(GW-1,3)									,					,
16.5-19'														
AS-9	7/30/1998	147.34	4.31	ND	143.03	17	<1.0	8	<3	600	NA	NA	NA	NA
(GW-1,3)	10/26/1998	147.34	7.30	ND	140.04	13	<1.0	2	<3	400	NA	NA	NA	NA
17.5-20'	11/13/1998 12/17/1998	147.34 147.34	7.30	ND ND	140.04 139.74	8 <20	<1.0	<1.0	⊲ 3	210 300	NA NA	NA NA	NA NA	NA NA
	1/6/1999	147.34	6.97	ND	140.37	<20	<1.0	<1.0	⊲	570	NA NA	NA NA	NA NA	NA NA
	2/9/1999	147.34	6.65	ND	140.69	19	<1.0	48	⊲3	380	NA	NA	NA	NA NA
AS-10	10/2/2002	144.11	6.84	ND	137.27	<2.0	<2.0	<2.0	<4.0	7.1	<3.0	1,120	<50	<50
(GW-1,3)								ļ	ļ	ļ				
18.5-20'	6/3/3005	144.47	NO	NO	N/ A	-100	. 2.0	10.5	16.0	62.7		-100	-100	154
RW-2 RW-3A	6/2/2005 6/2/2005	144.47 Unknown	NG NG	NG NG	NA NA	< 1.00	< 3.0	10.6 < 1.0	16.8 < 6.0	63.7 < 3.0	5.6 < 5.0	<100 <100	<100 <100	154 <100
RW-4	11/18/2004	Unknown	NG	NG	NA NA	<1.00	<3.0	1.7	4.5	22.9	<5.0	<100	<100	<100
RW-6	6/2/2005	Unknown	NG	NG	NA	2.8	7.1	47.6	83.9	300	13.5	238	<100	528

NA = Not Applicable NS = Not Sampled

528
QA/QC INFO:
LAST UPDATED
BY: AK
DATE: 1/17/19
LAST CHECKED
BY: DF
DATE: 2/9/2018

Table 3 Geochemical and Monitored Natural Attenuation Data

ell ID	Date	Field Temperature (°C)	Field Conductivity (µS/cm)	Field DO (mg/L)	Field pH (S.U.)	ORP (mV)	Ferrous Iron (mg/l)	Sulfate (mg/L)	Dissolved Iron (mg/L)	Dissolved Manganese (mg/L)	Methane (ug/L)	Nitrate (mg/L)	Sulfate (mg/L)	Total Alkalinity (mg/L as CaCO ₃)
W-1	3/10/2003	8.09	872	0.15	6.25	179	NM	NM	NM	NM	NM	NM	NM	NM
	5/3/2004	10.58	1,684	4.71	7.83	169.8	NM	NM	NM	NM	NM	NM	NM	NM
-	6/17/2004 6/28/2011	14.38 18.22	1,563 3,370	2.24	5.86 5.20	174.3 77.4	0.0 8.1	14 33	NM NM	NM NM	NM NM	<0.100	14 33	30 49
-	3/26/2014	6.35	4,361	0.85	6.00	-39.9	NM	21	97.6	13.9	422	< 0.100	21	NM
-	6/30/2014	16.80	5.35	0.33	6.23	-43.7	NM	26	87	13.7	2400	< 0.050	26	NM
	9/11/2014	19.29	4,709	0.69	6.02	-8.6	NM	30	52	7.7	2000	<.050	30	NM
	12/8/2014	10.16	4,940	2.88	6.11	5.2	NM	25	100	18	820	< 0.050	25	NM
	9/17/2015	22.00	5,060	0.01	6.13	-6.5	NM	23	55	6.9	2800	< 0.050	23	NM
	12/16/2015	13.50	5,581	0.17	6.07	205.6	NM	25	77	12	1400	< 0.05	25	NM
_	3/8/2016	10.00	4,326	0.14	5.75	28.4	NM	20	46	6.8	670	<0.050	20	NM
_	6/7/2016 9/26/2016	12.43 18.60	2.956 4,072	1.95 0.26	6.08	-69.4 104.0	NM NM	22 25	64 48	10 7.4	3300 1700	<0.050 0.075	22 25	NM NM
-	12/20/2016	13.20	3,470	0.20	6.23	-57.5	NM	26	48	6.8	1000	< 0.050	26	NM
-	3/28/2017	8.7	3816	0.14	6.19	30.30	NM	NM	NM	NM	NM	NM	NM	NM
	6/28/2017	15.10	5,959	0.17	5.93	-83.7	NM	20	98	11	3.9	< 0.050	20	NM
	9/19/2017	18.54	5,294	0.86	6.51	-51.9	NM	28	57	6.1	4.6	0.15	28	NM
	3/19/2018	8.60	4,464	0.58	6.23	-82.0	NM	18	73	7.5	2	0.070	18	NM
	6/6/2018	14.20	4,932	0.32	4.31	-35.2	NM	NM	NM	NM	NM	NM	NM	NM
	12/3/2018	13.70	4,438	0.17	6.10	-27.1	NM	12	56	6.5	3.1	0.061	12	NM
W-2	3/10/2003	5.73	2,115	2.20	6.40	14.9	NM	NM	NM	NM	NM	NM	NM	NM
	5/3/2004	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM
-	6/17/2004	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM
	10/17/2007	18.81	1,372	0.46	6.79	-14.3	NM	NM	NM	NM	NM	NM	NM	NM
	3/21/2008	7.99	4,522	1.34	7.20	-281.2	NM	NM	NM	NM	NM	NM	NM	NM
	9/25/2008	19.45	2,701	0.11	6.30	-168.5	NM	NM	NM	NM	NM	NM	NM	NM
-	3/10/2009	8.13	2,770	0.61	6.44	-57.2	2.0	NM	NM	NM	NM	NM	NM	NM
_	9/17/2009 4/21/2010	18.61 12.78	550 2,120	0.47	5.91 6.23	-162.9 -1712	NM NM	NM NM	NM NM	NM NM	NM NM	NM NM	NM NM	NM NM
	9/30/2010	19.83	575	1.10	6.16	0.30	NM	2.28	NM	NM	NM	< 0.100	2.28	93.3
-	12/29/2010	9.16	5,513	2.41	6.07	28.30	0.6	46.2	NM	NM	NM	< 0.100	46.2	47.1
	6/28/2011	17.37	19	0.13	6.08	-61.00	3.9	<10.0	NM	NM	NM	< 0.100	<10.0	79.6
	9/28/2011	20.81	1664	2.00	6.09	-58.30	2.2	1.99	3.24	0.259	112	< 0.100	1.99	NM
	12/22/2011	12.15	1764	0.17	6.38	-21.60	NM	15.2	2.27	0.308	14	< 0.100	15.2	NM
	3/8/2012	9.91	1744	0.60	6.47	-261.40	NM	20.6	0.464	0.289	7	0.57	20.6	NM
_	6/20/2012 9/10/2012	17.15 20.81	1264 1395	0.44	6.89	-52.10 -235.60	NM NM	16.6	1.58 2.08	0.18 0.225	24.8 117	0.14 <0.100	16.6	NM NM
-	12/12/2012	11.96	1892	0.11	6.77	-233.00	NM	<10.0	0.878	0.223	<2.20	<0.100	<10.0	NM NM
-	3/27/2013	9.30	6814	0.15	6.45	88.20	NM	29.3	2.66	0.137	27	0.46	29.3	NM
-	6/19/2013	17.0	1769	0.24	6.37	-130.70	NM	4.84	2.95	0.168	516	< 0.100	4.84	NM
	12/16/2013	9.1	2310	0.47	6.39	113.70	NM	NM	NM	NM	NM	NM	NM	NM
	3/26/2014	4.6	19	0.69	6.59	-127.30	NM	70.5	2.35	0.271	455	< 0.100	70.5	NM
V 2D	6/20/2014	15.40	2	0.17	E 0.4	47	ND 4	20	0.1	-0.010	2.5	2	20	ND 4
W-2R	6/30/2014 9/11/2014	15.40 18.37	2 2213	0.17	5.84 5.46	47 140.30	NM NM	36 NM	0.1 NM	<0.010 NM	<2.6 NM	2 NM	36 NM	NM NM
-	3/31/2015	8.5	2323	1.86	5.46	139.80	NM	28	<0.05	0.3	4	4	28	NM NM
 	12/16/2015	13.2	2613	0.32	5.68	206.90	NM	NM	NM	NM	NM	NM	NM	NM
	3/8/2016	9.8	2,782	1.45	5.33	167.60	NM	NM	NM	NM	NM	NM	NM	NM
	9/26/2016	18.4	2,439	0.36	5.75	100.30	NM	NM	NM	NM	NM	NM	NM	NM
	12/20/2016	12.8	2,452	0.27	5.95	72.70	NM	NM	NM	NM	NM	NM	NM	NM
<u> </u>	3/28/2017	8.9	2,539	2.21	5.88	72.80	NM	33	0.069	0.23	<2.20	5.4	33	NM
<u> </u>	9/19/2017	17.9	2,413	0.71	6.14	93.10	NM	NM 40	NM	NM 2.0	NM	NM	NM 40	NM NM
-	12/27/2017 3/19/2018	11.8 8.5	3,033 2,375	0.24	5.69 5.89	50.90 24.80	NM NM	40 NM	<0.050 NM	2.0 NM	<0.0070 NM	1.0 NM	40 NM	NM NM
-	6/6/2018			2.50	4.05	98.90	NM NM	42	0.082	0.015			42	NM NM
-	12/3/2018			0.30	5.86			NM	NM			NM	NM	NM
		-511	-,570		2.00	2 3.00								2
W-2D	3/10/2003	8.35	439	0.73	6.86	78	NM	NM	NM	NM	NM	NM	NM	NM
	5/3/2004	11.88	589	2.46	7.87	170.5	NM	NM	NM	NM	NM	NM	NM	NM
	6/17/2004	13.47	536	0.12	6.50	110.7	0.0	ND	NM	NM	NM	2.0	ND	85
W-2D	3/10/20 5/3/200	018	118 13.4 103 8.35 104 11.88	118 13.4 1,690 103 8.35 439 104 11.88 589	118 13.4 1,690 0.30 103 8.35 439 0.73 104 11.88 589 2.46	118 13.4 1,690 0.30 5.86 103 8.35 439 0.73 6.86 104 11.88 589 2.46 7.87	118 13.4 1,690 0.30 5.86 -56.00 103 8.35 439 0.73 6.86 78 104 11.88 589 2.46 7.87 170.5	118 13.4 1,690 0.30 5.86 -56.00 NM 103 8.35 439 0.73 6.86 78 NM 104 11.88 589 2.46 7.87 170.5 NM	118	118	118	118	118	118

Table 3 Geochemical and Monitored Natural Attenuation Data

Well ID	Date	Field Temperature (°C)	Field Conductivity (µS/cm)	Field DO (mg/L)	Field pH (S.U.)	ORP (mV)	Ferrous Iron (mg/l)	Sulfate (mg/L)	Dissolved Iron (mg/L)	Dissolved Manganese (mg/L)	Methane (ug/L)	Nitrate (mg/L)	Sulfate (mg/L)	Total Alkalinity (mg/L as CaCO ₃)
MW-3	12/16/2015	13.30	1094	0.88	5.98	157.8	NM	NM	NM	NM	NM	NM	NM	NM
	3/8/2016	12.00	1,122	0.29	5.73	58.1	NM	NM	NM	NM	NM	NM	NM	NM
	9/26/2016	18.20	1,081	0.30	5.99	143.7	NM	NM	NM	NM	NM	NM	NM	NM
	12/20/2016	14.40	1,254	0.97	6.21	67.3	NM	NM	NM	NM	NM	NM	NM	NM
	3/28/2017 9/19/2017	11.20 17.17	923 1,111	0.08	6.41	-35.3 -32.5	NM NM	NM NM	NM NM	NM NM	NM NM	NM NM	NM NM	NM NM
	12/27/2017	12.80	6,627	0.07	5.99	22.2	NM	NM	NM	NM	NM	NM	NM	NM
	3/19/2018	10.30	2,103	0.45	6.22	-76.1	NM	NM	NM	NM	NM	NM	NM	NM
	6/6/2018	14.70	1,245	0.08	4.65	-74.0	NM	NM	NM	NM	NM	NM	NM	NM
	12/3/2018	14.20	1,333	0.38	6.05	-113.7	NM	NM	NM	NM	NM	NM	NM	NM
MW-4	9/28/2011	18.35	1302	1.66	6.08	157.1	1.6	19	3.48	0.603	13	0.16	19	NM
	12/22/2011	13.90	606	1.91	6.10	126.2	NM	23.7	< 0.03	0.258	<2.20	2.04	23.7	NM
	3/8/2012	11.28	2551	0.37	5.97	-42.7	NM	21.5	0.326	0.256	<2.20	0.46	21.5	NM
	6/20/2012	16.29	1760	0.58	7.57	52.4	NM	23.8	0.774	0.668	<2.20	0.74	23.8	NM
	3/27/2013	9.86	2418	1.79	6.15	367.2	NM	46.1	0.474	0.647	<2.20	<10.0	46.1	NM
	12/16/2013	10.40	1110	0.54	6.32	54.9	NM	NM	NM	NM	NM	NM	NM	NM
	12/16/2015	13.30	2394	0.21	6.19	189.2	NM	NM	NM	NM	NM	NM	NM	NM
	3/8/2016 9/26/2016	10.6 19.6	1,643 2,252	0.16	5.99	21.8	NM NM	NM	NM NM	NM NM	NM NM	NM NM	NM NM	NM NM
	12/20/2016	19.6		0.22	6.45 6.40	109.4	NM NM	NM NM	NM NM	NM NM	NM NM	NM NM	NM	NM NM
	3/28/2017	7.70	4,723 259	5.54	6.40	-16.3	NM	NM	NM	NM	NM	NM	NM	NM NM
	12/27/2017	12.50	3,639	0.21	6.64	-29.5	NM	NM	NM	NM	NM	NM	NM	NM
	3/19/2018	8.60	5,655	1.11	6.15	-65.6	NM	NM	NM	NM	NM	NM	NM	NM
	6/6/2018	13.10	3,914	0.01	4.65	-74.0	NM	NM	NM	NM	NM	NM	NM	NM
	12/3/2018	13.70	3,836	2.79	6.39	-171.8	NM	NM	NM	NM	NM	NM	NM	NM
MW-5D	3/10/2003	9.73	584	1.53	6.30	902	NM	NM	NM	NM	NM	NM	NM	NM
	5/3/2004	12.46	949	9.10	7.90	176.2	NM	NM	NM	NM	NM	NM	NM	NM
	6/17/2004	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM
	2/10/2002		4.44	0.11	- • • •		177.6	177.6	V2 (277.6	177.6	177.6	177.6) N 6
MW -5DD	3/10/2003	9.93	161	0.64	7.20	882	NM	NM	NM	NM	NM	NM	NM	NM
	5/3/2004 6/17/2004	11.73 NM	286 NM	5.08 NM	7.92 NM	173.6 NM	NM NM	NM NM	NM NM	NM NM	NM NM	NM NM	NM NM	NM NM
	6/17/2004	INIVI	INIVI	INIVI	INIVI	INIVI	INIVI	NIVI	INIVI	INIVI	NIVI	INIVI	NIVI	INIVI
OW-5	10/17/2007	15.71	2,039	0.43	7.06	-43.9	NM	NM	NM	NM	NM	NM	NM	NM
0110	1/7/2008	11.38	826	0.58	6.57	-57.5	1.4	11	NM	NM	NM	12	11	NM
	3/21/2008	6.82	678	0.22	7.28	-332.5	NM	NM	NM	NM	NM	NM	NM	NM
	9/25/2008	15.56	2,344	0.22	6.29	-89.9	NM	NM	NM	NM	NM	NM	NM	NM
	3/10/2009	7.67	444	0.79	7.06	53.4	0.0	NM	NM	NM	NM	NM	NM	NM
	9/17/2009	14.25	1,573	0.77	6.59	43.6	NM	NM	NM	NM	NM	NM	NM	NM
	4/21/2010	12.44	623	0.71	6.87	2.1	NM	NM	NM	NM	NM	NM	NM	NM
	10/15/2005	10.00		0.01	- 10		177.6	177.6	277.6		177.6	10.6	177.6	177.6
OW-6	10/17/2007	13.32	1,144	0.36	6.40	16.7	NM	NM	NM	NM	NM	NM	NM	NM NM
	3/21/2008	6.13	1 384	0.10	5.98	-266.8	NM NM	NM NM	NM NM	NM NM	NM NM	NM NM	NM NM	NM NM
	9/25/2008 3/10/2009	8.15	1,384 584	0.19	6.22	-94.9 105.4	NM 2.0	NM NM	NM NM	NM NM	NM NM	NM NM	NM NM	NM NM
	9/17/2009	13.80	1,143	0.76	5.93	103.4	NM	NM	NM	NM	NM	NM	NM	NM
	4/21/2010	13.10	631	1.04	5.84	183.9	NM	NM	NM	NM	NM	NM	NM	NM
		*												
OW-10	10/17/2007	14.60	1,229	0.49	7.04	-34.6	NM	NM	NM	NM	NM	NM	NM	NM
	3/21/2008	6.81	680	2.90	7.14	-214.8	NM	NM	NM	NM	NM	NM	NM	NM
	9/25/2008	14.90	1,588	0.18	6.12	-82.1	NM	NM	NM	NM	NM	NM	NM	NM
	3/10/2009	9.27	423	2.37	7.02	88	0.0	NM	NM	NM	NM	NM	NM	NM
	9/17/2009	13.41	798	4.42	6.66	74.4	NM	NM	NM	NM	NM	NM	NM	NM
	4/21/2010	12.26	536	1.55	6.91	62.8	NM	NM	NM	NM	NM	NM	NM	NM
	3/8/2012	12.01	734	3.27	6.88	-40.7	NM	14.2	<0.03	0.167	<2.20	0.7	14.2	NM
	6/20/2012	14.13	1196	0.60	7.44	5.2	NM	20.1	0.0796	0.667	19.8	0.11	20.1	NM
	9/10/2012	16.44	1143	0.21	6.76	-236.8	NM NM	<5.0	9.18	1.23	105	<0.100	<5.0	NM NM
i	12/12/2012 6/19/2013	12.16 13.4	1339 823	2.26 0.45	6.72 6.98	45.8 271.0	NM NM	30.3 13.8	0.936 <0.03	0.344	<2.20	<0.100	30.3 13.8	NM NM
		13.4	023	0.45	0.98	4/1.0	INIVI	13.8	<0.03	0.0007	<4.2U	0.12	13.8	
		8.6	1600	2.50	6.08	13/10	NM	28.7	0.0515	0.0647	<2.20	< 0.100	28.7	NM
	12/16/2013 3/31/2015	8.6 8.1	1600 547	2.50 4.65	6.08 7.23	134.0 154.3	NM NM	28.7 14	0.0515 <0.05	0.0647 <0.01	<2.20	<0.100	28.7 14	NM NM

Table 3 Geochemical and Monitored Natural Attenuation Data

Well ID	Date	Field Temperature (°C)	Field Conductivity (µS/cm)	Field DO (mg/L)	Field pH (S.U.)	ORP (mV)	Ferrous Iron (mg/l)	Sulfate (mg/L)	Dissolved Iron (mg/L)	Dissolved Manganese (mg/L)	Methane (ug/L)	Nitrate (mg/L)	Sulfate (mg/L)	Total Alkalinity (mg/L as CaCO ₃)
OW-12	9/30/2010	18.57	1,211	1.10	6.36	-25.7	NM	NM	NM	NM	NM	NM	NM	NM
	12/29/2010	12.00	504	8.55	6.17	119.3	NM	NM	NM	NM	NM	NM	NM	NM
	6/28/2011	18.79	2,006	9.29	5.84	61.4	2.6	12.0	NM	NM	NM	0.1	12.0	112
-	9/28/2011	20.16	1,909	1.59	5.83	155.7	2	9.87	3.52	0.652	29	0.52	9.87	NM NM
-	12/22/2011 3/8/2012	13.66 11.39	1,595 992	0.46	6.13	10.2 -164.3	NM NM	16.6 5.36	3.09 1.2	0.634	<2.2 9	0.15	16.6 5.36	NM NM
-	6/20/2012	17.20	1,353	0.57	7.89	-54.2	NM	3.53	5.01	0.708	40.3	<.100	3.53	NM
	9/10/2012	18.37	722	0.27	6.28	-225.5	NM	25.3	< 0.03	0.317	<2.20	2.75	25.3	NM
	12/12/2012	13.59	1,143	0.74	6.73	-225.5	NM	13.6	1.5	0.368	4.7	< 0.100	13.6	NM
	3/27/2013	10.94	1,307	0.58	6.40	300.6	NM	25	2.25	0.578	<2.2	1.53	25	NM
	12/16/2013	10.80	1,360	0.52	6.19	85.9	NM	NM	NM	NM	NM	NM	NM	NM
	6/30/2014	18.82	1,575	0.72	5.90	16.6	NM	21	4.5	1.8	<2.6	< 0.050	21	NM
	9/11/2014	18.82	1,575	0.72	5.90	16.6	NM	NM	NM	NM	NM	NM	NM	NM
	12/8/2014	08.81	1,592	1.77	6.47	0	NM	26	0.8	0.63	89	0.66	26	NM
	9/17/2015	22.00	1,765	0.01	6.18	43.7	NM	30	1.9	0.92	73	0.32	30	NM
	12/16/2015	13.40	1,965	0.72	6.29	204.9	NM	28	0.25	0.36	<2.6	0.92	28	NM
	3/8/2016	11.20	3,096	0.37	6.07	40.1	NM	25	0.47	0.68	130	1.0	25	NM
	6/7/2016	12.25	1.494	1.47	6.46	-32.4	NM	21	0.89	0.54	110	0.22	21	NM
	9/26/2016	20.00	1,969	0.43	6.30	112.2	NM	51	2	0.53	84	0.3	51	NM NM
-	12/20/2016	13.90 10.20	1,218	0.52	6.16	-59.2 77.2	NM NM	29 49	<0.050 <0.050	0.55	<0.0026 <2.20	3 2.6	29 49	NM NM
-	3/28/2017 6/28/2017		4,557	1.62 0.52	6.67	-63.9	NM NM	37	<0.050 0.65	0.061	<2.20 0.11	0.37	37	NM NM
-	9/19/2017	16.40 18.52	3,875 2,223	0.52	6.24	-63.9	NM NM	15	0.65	0.55	0.11	0.37	15	NM NM
-	12/27/2017	13.00	1,993	0.75	6.23	71.7	NM	27	0.82	0.60	0.019	0.071	27	NM NM
-	3/19/2018	9.90	4,158	0.74	6.33	82.8	NM	38	1.3	1.6	0.048	1.4	38	NM
	6/6/2018	13.80	3,644	0.39	6.20	-20.7	NM	25	1.4	0.47	0.12	0.1	25	NM
-	12/3/2018	14.60	4,247	0.76	6.24	-66.1	NM	45	0.45	0.51	0.14	1.5	45	NM
	12/3/2010	11.00	1,217	0.70	0.2.	00.1	11111		0.10	0.51	0.11	1.0		1,1,1
OW-13	10/17/2007	17.80	935	0.52	6.63	57.1	NM	NM	NM	NM	NM	NM	NM	NM
	3/21/2008	9.36	1,494	0.14	7.13	-2942	NM	NM	NM	NM	NM	NM	NM	NM
	9/25/2008	18.60	1,583	0.21	6.26	-109.4	NM	NM	NM	NM	NM	NM	NM	NM
	3/10/2009	9.42	3,769	0.43	6.22	-18.3	4.0	NM	NM	NM	NM	NM	NM	NM
-	9/17/2009 4/21/2010	17.39 14.39	1,063 537	0.45	5.89	55.7 -1102	NM NM	NM NM	NM NM	NM NM	NM NM	NM NM	NM NM	NM NM
-	9/30/2010	18.70	935	1.34	6.14	75.1	NM NM	23.2	NM NM	NM NM	NM NM	0.970	23.2	69.1
-	12/29/2010	11.61	882	3.18	6.11	66.5	1.1	19.4	NM	NM	NM	0.500	19.4	103
-	9/28/2011	20.14	988	1.27	5.98	158.4	2.2	6.99	2.76	0.518	81	0.440	6.99	NM
	12/22/2011	13.30	903	1.21	6.07	92.2	NM	19.6	0.171	0.777	0.777	0.780	19.6	NM
	3/8/2012	11.68	4135	0.20	6.23	-264.2	NM	25	5.78	0.468	102	< 0.100	25	NM
	6/20/2012	16.95	1681	0.78	7.40	-10.9	NM	13.6	9.42	1.34	73	0.240	13.6	NM
-	9/10/2012 12/12/2012	19.91	1048 1195	0.36	6.07	-221.3 -27.9	NM NM	15.8 28.1	2.04 4.78	0.486	21.7 43.9	0.640	15.8 28.1	NM NM
-	3/27/2012	13.53 11.40	3392	0.56	6.51	116.2	NM NM	16.6	22.7	2.46	82.2	0.230	16.6	NM NM
	6/19/2013	16.20	745	0.23	6.39	-98.2	NM	30.3	4.71	0.305	48	0.120	30.3	NM
	12/16/2013	11.00	1206	0.31	6.85	-30.1	NM	1.26	12.3	0.233	19.6	< 0.100	1.26	NM
	9/11/2014	19.05	1296	1.00	5.57	77.9	NM	27	4.2	0.84	240	0.051	27	NM
	12/8/2014	9.97	1457	2.63	6.21	23.4	NM	19	4.6	0.76	520	< 0.05	19	NM
-	3/31/2015 9/17/2015	9.80 21.00	1197 1545	0.68	6.33 5.92	3.0 75.2	NM NM	<2.0 26	13 2.4	1.5	960 320	<0.05 0.260	<2.0 26	NM NM
-	12/16/2015	13.40	1545	0.01	5.98	203.8	NM	24	3.1	0.84	520	0.260	24	NM NM
	3/8/2016	11.7	1,290	0.17	5.76	98.1	NM	21	2.9	0.67	830	< 0.050	21	NM
	6/7/2016	13.5	0.763	2.26	5.99	-45.0	NM	15	4.4	0.94	1300	0.190	15	NM
 	9/26/2016	20.0	1,596	0.29	6.04	131.0	NM	23	2.3	1.1	2300	0.280	23	NM
	12/20/2016	13.8	3,116	0.20	6.24	-67.5	NM	11	7	1.1	1300	0.054	11	NM NM
-	3/28/2017 6/28/2017	10.2 17.3	5,195 1,269	0.05	6.47 5.74	-59.4 -65.6	NM NM	19 6.4	6.7	1.3 1.6	<2.20	0.12	19 6.4	NM NM
	9/19/2017	18.7	1,761	0.12	6.41	-03.0	NM	26	9.4	1.6	0.41	0.18	26	NM NM
	12/27/2017	12.8	26,580	0.18	6.07	-0.8	NM	57	6.3	1.1	0.88	< 0.050	57	NM
	3/19/2018	10.2	22,236	0.47	6.01	-95.7	NM	28	4.8	0.28	0.16	0.076	28	NM
	6/6/2018	15.1	418.8	0.03	5.04	-24.4	NM	3.9	4.7	0.75	0.58	< 0.050	3.9	NM
	12/3/2018	14.6	323.0	0.33	6.05	-99.7	NM	2.2	0.86	0.17	0.29	0.4	2.2	NM
-	12/5/2018	14.6	325.0	0.33	6.05	-99.7	NM	2.2	0.86	0.1/	0.29	0.4	2.2	<u> </u>

Table 3 Geochemical and Monitored Natural Attenuation Data

Well ID	Date	Field Temperature (°C)	Field Conductivity (µS/cm)	Field DO (mg/L)	Field pH (S.U.)	ORP (mV)	Ferrous Iron (mg/l)	Sulfate (mg/L)	Dissolved Iron (mg/L)	Dissolved Manganese (mg/L)	Methane (ug/L)	Nitrate (mg/L)	Sulfate (mg/L)	Total Alkalinity (mg/L as CaCO ₃)
OW-14	10/17/2007	16.58	1,279	0.98	5.92	34.9	NM	NM	NM	NM	NM	NM	NM	NM
	3/21/2008	7.69	470	4.10	6.60	-206.7	NM	NM	NM	NM	NM	NM	NM	NM
	9/25/2008	17.40	1,721	0.30	6.10	80.0	NM	NM	NM	NM	NM	NM	NM	NM
	3/10/2009	10.43	533	2.90	6.20	163.5	0.0	NM	NM	NM	NM	NM	NM	NM
	9/17/2009	16.35	1,283	0.68	6.07	912	NM	NM	NM	NM	NM	NM	NM	NM
-	4/21/2010	13.68	1,164	5.54	5.77	210.1	NM	NM	NM	NM	NM	NM	NM	NM
OW-B	3/10/2003	3.96	857	0.32	7.35	198	NM	NM	NM	NM	NM	NM	NM	NM
	5/3/2004	9.97	1,415	2.09	7.92	163.5	NM	NM	NM	NM	NM	NM	NM	NM
	6/17/2004	11.47	700	0.15	6.33	-63.9	4.65	ND	NM	NM	NM	ND	ND	155
_	10/17/2007	10.56	1,327	0.43	6.58	-19.6	NM	NM	NM	NM	NM	NM	NM	NM
	3/21/2008	6.26	563	1.13	6.76	-274.8	NM	NM	NM	NM	NM	NM	NM	NM
L	9/25/2008	15.07	1,870	0.15	6.13	-88.4	NM	NM	NM	NM	NM	NM	NM	NM
L	3/10/2009	8.94	900	0.25	6.33	21.8	3.6	NM	NM	NM	NM	NM	NM	NM
-	9/17/2009	13.80	1,224	3.20	6.31	-32.7	NM	NM	NM	NM	NM	NM	NM	NM
-	4/21/2010	12.53	827	0.50	6.27	-6.5	NM	NM	NM	NM	NM	NM	NM	NM
-	12/29/2010	NM	NM	2.41	6.07	28.3	NM	NM	NM	NM	NM	NM	NM	NM
-	6/29/2011	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM
-	3/26/2014	5.61	1642	0.46	6.31	-13.6	NM	8.09	4.17	0.549	268	< 0.100	8.09	NM
-	9/11/2014	16.07	1999	0.75	6.01	31.50	NM	5	6.5	0.92	760	< 0.050	5	NM
OW-BD	3/10/2003	7.96	727	0.21	6.64	64.9	NM	NM	NM	NM	NM	NM	NM	NM
•	5/4/2004	10.78	1,603	0.79	8.00	164.4	NM	NM	NM	NM	NM	NM	NM	NM
	6/17/2004	11.38	971	0.12	6.11	-62.7	4.8	ND	NM	NM	NM	ND	ND	125
	1/4/2005	13.78	1,688	0.86	6.43	-74.3	5.0	6.0	NM	NM	NM	0.8	6.0	NM
OW-ED	9/28/2011	16.42	905	1.46	6.33	266.7	0	46.3	0.0375	0.0666	<2.20	< 0.100	46.3	NM
OW-ED	12/22/2011	12.90	938	2.72	7.26	0.6	NM	47.4	< 0.0373	0.0000	<2.20	< 0.100	47.4	NM
ŀ	9/10/2012	15.89	1,252	0.17	6.42	-237.9	NM	<10.0	2.96	0.35	86.2	< 0.100	<10.0	NM
F	12/12/2012	12.85	955	5.84	7.53	9.6	NM	49.7	< 0.03	< 0.004	<2.20	< 0.100	49.7	NM
-	3/27/2013	12.26	994	3.75	7.68	5358.0	NM	46.9	< 0.03	< 0.004	<2.20	0.12	46.9	NM
ŀ	12/16/2013	9.90	980	5.88	7.70	110.5	NM	39.8	< 0.03	<0.004	<2.20	< 0.100	39.8	NM
	9/17/2015	15.30	914	0.17	7.37	24.4	NM	35	0.16	0.23	4.9	< 0.050	35	NM
	12/16/2015	12.60	951	1.96	7.35	184.8	NM	37	0.34	0.37	<2.6	< 0.050	37	NM
	3/8/2016	12.2	967	3.90	7.37	36.1	NM	31	< 0.050	< 0.010	<2.6	5.8	31	NM
	6/7/2016	9.8	1	2.05	7.01	65.3	NM	34	< 0.050	0.012	<2.6	< 0.050	34	NM
	9/26/2016	14.5	922	0.98	7.42	65.9	NM	37	< 0.050	< 0.010	<2.6	< 0.050	37	NM
	12/20/2016	11.3	920	3.60	7.52	-123.4	NM	40	< 0.050	0.011	<2.6	< 0.050	40	NM
	3/28/2017	10.7	881	3.14	7.80	12.7	NM	44	0.064	0.024	<2.20	< 0.050	44	NM
	6/28/2017	14.1	890	1.08	7.24	-93.4	NM	41	< 0.050	0.024	< 0.0070	< 0.050	41	NM
	9/19/2017	15.0	964	4.38	7.69	-20.1	NM	42	< 0.050	< 0.010	< 0.0070	< 0.050	42	NM
Ļ	12/27/2017	11.2	893	3.04	7.45	20.0	NM	36	< 0.050	0.011	< 0.0070	0.056	36	NM
Ļ	3/19/2018	10.3	815	3.65	7.42	-34.6	NM	39	< 0.050	< 0.010	<0.0070	<0.050	39	NM
-	6/6/2018	13.2	889	2.34	5.51	21.4	NM	39	< 0.050	<0.010	<0.0070	<0.050	39	NM
-	12/3/2018	13.4	883	0.99	7.39	-32.4	NM	37	< 0.050	0.024	<0.0070	< 0.050	37	NM
OW-G	9/30/2010	18.23	1,167	2.35	6.21	156.8	NM	NM	NM	NM	NM	NM	NM	NM
Ī	12/29/2010	11.29	660	10.16	6.29	119.5	NM	NM	NM	NM	NM	NM	NM	NM
	6/28/2011	19.53	2,282	10.25	5.80	188.1	2.1	24.3	NM	NM	NM	< 0.100	24.3	48.8
OW-I	1/4/2005	11.09	848	0.83	6.32	144.9	0.9	22.0	NM	NM	NM	1.1	22.0	NM
011-1	5/6/2005	9.64	238	0.83	6.14	43.4	0.9	16.0	NM	NM	NM	0.4	16.0	NM
+	8/1/2005	14.36	871	1.00	5.88	275.6	1.2	12.0	NM	NM	NM	0.4	12.0	NM
Ī	12/8/2005	9	533	8.16	6.23	245.6	4.6	10.0	NM	NM	NM	0.9	10.0	NM
Ī	2/2/2006	6.99	1,424	1.27	6.23	223.3	0.58	13.0	NM	NM	NM	0.8	13.0	NM
Ī	5/26/2006	9.44	207	1.41	6.52	44.8	2.1	18.0	NM	NM	NM	1.4	18.0	NM
Ī	9/1/2006	15.05	840	0.82	5.72	82.7	>3.0	11.0	NM	NM	NM	0.4	11.0	NM
	12/13/2006	11.37	628	0.25	6.86	76.4	2.0	11.0	NM	NM	NM	8.7	11.0	NM
	12/13/2000													

Table 3 Geochemical and Monitored Natural Attenuation Data

Well ID	Date	Field Temperature (°C)	Field Conductivity (µS/cm)	Field DO (mg/L)	Field pH (S.U.)	ORP (mV)	Ferrous Iron (mg/l)	Sulfate (mg/L)	Dissolved Iron (mg/L)	Dissolved Manganese (mg/L)	Methane (ug/L)	Nitrate (mg/L)	Sulfate (mg/L)	Total Alkalinity (mg/L as CaCO ₃)
OW-J	1/4/2005	9.77	872	2.26	6.58	145.6	0.8	9.0	NM	NM	NM	0.9	9.0	NM
	5/6/2005	10.5	409	2.69	6.58	23.7	0.0	10.0	NM	NM	NM	0.0	10.0	NM
	8/1/2005	16.39	978	1.00	6.08	280.6	1.4	4.0	NM	NM	NM	0.5	4.0	NM
	12/8/2005	8.77	340	7.32	6.96	209.5	0.5	3.0	NM	NM	NM	0.9	3.0	NM
	2/2/2006	6.32	408	2.23	6.87	172.4	0.66	4.0	NM	NM	NM	12.0	4.0	NM
	5/26/2006	10.04	93	1.30	6.97	105.1	0.8	8.0	NM	NM	NM	12.0	8.0	NM
	9/1/2006	15.69	310	0.48	6.57	4.7	1.96	19.0	NM	NM	NM	1.1	19.0	NM
	12/13/2006	10.99	348	0.50	7.15	56.8	0.6	5.0	NM	NM	NM	5.7	5.0	NM
	3/30/2007	5.51	179	5.38	6.76	402	0.0	2.0	NM	NM	NM	12.0	2.0	NM
	6/25/2007	11.56	393	0.11	6.72	-3052	0.35	28.0	NM	NM	NM	6.1	28.0	NM
	1/8/2008	9.29	478	1.15	6.66	23.3	0.2	23.0	NM	NM	NM	1.3	23.0	NM
	6/19/2008	13.02	710	0.17	6.43	94.9	1.0	29.0	NM	NM	NM	1.1	29.0	NM
	1/14/2009	7.44	378	0.90	7.44	10.3	0.8	23.0	NM	NM	NM	1.7	23.0	NM
	6/19/2009	11.58	511	0.27	6.54	70.8	1.0	26.0	NM	NM	NM	2.8	26.0	NM
	12/22/2009	3.69	506	2.18	6.38	48.4	1.71	10.0	NM	NM	NM	1.3	10.0	NM
	6/11/2010	11.40	632	0.10	6.36	-32.8	1.8	8.0	NM	NM	NM	1.3	8.0	NM
OW-K	7/13/2004	10.80	261	0.09	9.09	94.3	0.0	25.0	NM	NM	NM	0.0	25.0	NM
	1/4/2005	8.65	470	5.69	6.05	188.7	0.8	7.0	NM	NM	NM	1.5	7.0	NM
	5/6/2005	9.47	182	1.05	5.93	62.6	0.0	9.0	NM	NM	NM	0.0	9.0	NM
	8/1/2005	16.43	213	1.58	5.96	195.7	0.0	12.0	NM	NM	NM	0.4	12.0	NM
	12/8/2005	8.02	102	2.95	6.06	186.1	0.5	27.0	NM	NM	NM	3.9	27.0	NM
	2/2/2006	6.38	131	1.10	6.40	156.2	0.25	5.0	NM	NM	NM	1.5	5.0	NM
-	5/26/2006	11.54	38	10.12	6.59	330.9	1.0	5.0	NM	NM	NM	1.8	5.0	NM
	9/1/2006	15.15	172	0.61	5.72	127.2	0.66	4.0	NM	NM	NM	0.6	4.0	NM
	12/13/2006	1027	338	0.51	6.87	148.2	0.0	6.0	NM	NM	NM	5.6	6.0	NM
	3/30/2007	5.98	78	4.51	5.73	63.3	0.0	2.0	NM	NM	NM	1.0	2.0	NM
	6/25/2007	11.85	263	0.13	6.15	-219.7	0.58	13.0	NM	NM	NM	10.0	13.0	NM
	1/7/2008	8.41	467	0.93	6.03	51.9	0.4	4.0	NM	NM	NM	1.1	4.0	NM
	6/19/2008	11.66	255	0.36	6.08	114.5	0.5	5.0	NM	NM	NM	12	5.0	NM
L	1/14/2009	7.40	146	1.58	7.03	20.9	0.0	2.0	NM	NM	NM	2.1	2.0	NM
L	6/19/2009	11.48	125	2.09	6.06	146.4	0.0	10.0	NM	NM	NM	3.0	10.0	NM
L	12/22/2009	8.05	204	2.05	5.68	176.3	0.35	8.0	NM	NM	NM	1.3	8.0	NM
L	6/11/2010	11.55	308	0.16	6.14	0.8	0.2	4.0	NM	NM	NM	1.3	4.0	NM
Ļ	6/28/2011	12.88	211	2.46	5.51	277.1	0.0	7.9	NM	NM	NM	3.6	7.9	37.3
OW-L	7/13/2004	11.20	969	0.03	8.25	47.8	1.8	34.0	NM	NM	NM	0.6	34.0	NM
<u> </u>	1/4/2005	6.18	57	12.03	6.36	176.5	0.0	0.0	NM	NM	NM	1.3	0.0	NM
ļ	5/6/2005	10.09	374	0.76	5.77	64.1	0.0	0.0	NM	NM	NM	0.0	0.0	NM
ŀ	8/1/2005	13.9	1025	3.00	5.93	199	3.2	52.0	NM	NM	NM	0.0	52.0	NM
ŀ	12/8/2005	6.78	626	4.10 0.06	6.50	92.1	3.0	4.0	NM	NM	NM	12.0	4.0	NM
}	2/2/2006	6.33	1,444			210.4	2.05	3.0	NM NM	NM NM	NM NM	12.0	3.0	NM NM
}	5/26/2006	14.41	234	0.94	6.71	-70.8	4.1	6.0	NM	NM	NM	2.0	6.0	NM
ŀ	9/1/2006	15.81	636 61	1.67 3.32	5.96 6.01	-0.1 44.9	73.0	5.0 14.0	NM NM	NM NM	NM NM	0.8 22.0	5.0 14.0	NM NM
ŀ	3/30/2007 6/25/2007	6.11 12.97	1,441	0.24	6.01	-307.3	6.19	15.0	NM NM	NM NM	NM NM	18.1	15.0	NM NM
}		9	1,441	0.24	6.19	32.3	5.4	32.0		NM NM		5.1	32.0	NM NM
}	1/7/2008 6/19/2008	13.21	1,073	0.10				23.0	NM NM		NM NM			
ŀ	1/14/2009	8.14	358	0.24	6.12 7.29	70.4 6.6	3.4	4.0	NM NM	NM NM	NM NM	2.1 1.8	23.0	NM NM
ŀ	6/19/2009													
}	12/22/2009	13.89 9.44	127 545	5.60 1.05	6.19 5.62	102.8 168.3	1.6 1.5	11.0 11.0	NM NM	NM NM	NM NM	3.5 1.0	11.0 11.0	NM NM
}	6/11/2010				6.03		3.0		NM NM		NM NM	2.3		
}	0/11/2010	11.49	1,314	0.34	0.03	-72	3.0	13.0	INIVI	NM	INIVI	2.3	13.0	NM
OW-M	7/13/2004	9.70	1,138	0.02	8.68	-7.1	2.4	19.0	NM	NM	NM	0.9	19.0	NM
OW-M	5/6/2005	10.45	215	1.36	6.05	19.4	2.4	0.0	NM NM	NM NM	NM NM	0.9	0.0	NM NM
L	3/0/2003	10.45	413	1.30	0.05	17.4	2.4	0.0	INIVI	INIVI	INIVI	0.0	0.0	INIVI

Table 3 Geochemical and Monitored Natural Attenuation Data

Well ID	Date	Field Temperature (°C)	Field Conductivity (µS/cm)	Field DO (mg/L)	Field pH (S.U.)	ORP (mV)	Ferrous Iron (mg/l)	Sulfate (mg/L)	Dissolved Iron (mg/L)	Dissolved Manganese (mg/L)	Methane (ug/L)	Nitrate (mg/L)	Sulfate (mg/L)	Total Alkalinity (mg/L as CaCO ₃)
OW-N	3/10/2003	7.27	392	1.06	6.55	207.2	NM	NM	NM	NM	NM	NM	NM	NM
•	5/4/2004	9.85	453	5.00	7.78	175.6	NM	NM	NM	NM	NM	NM	NM	NM
	6/17/2004	12.85	647	0.76	6.45	77.7	0.4	52.0	NM	NM	NM	2.8	52.0	60
•	5/6/2005	12.25	403	2.53	6.23	49	0.0	26.0	NM	NM	NM	7.6	26.0	NM
	8/1/2005	16.86	823	0.86	6.06	321.9	0.0	11.0	NM	NM	NM	0.0	11.0	NM
	12/8/2005	12.04	473	12.53	6.67	386.7	0.0	19.0	NM	NM	NM	0.43	19.0	NM
	2/2/2006	9.01	635	3.35	6.60	196.4	0.04	21.0	NM	NM	NM	1.1	21.0	NM
	5/26/2006	12.18	108	4.00	6.79	207.7	0.7	43.0	NM	NM	NM	12	43.0	NM
	9/1/2006	16.31	393	0.97	6.63	102.2	1.5	37.0	NM	NM	NM	3.4	37.0	NM
	3/30/2007	9.12	338	1.31	6.27	30.6	0.0	28.0	NM	NM	NM	1.8	28.0	NM
	6/25/2007	13.35	828	0.12	6.35	-279.3	0.13	29.0	NM	NM	NM	7.5	29.0	NM
	1/7/2008	11.79	522	1.08	6.72	16.6	0.0	26.0	NM	NM	NM	1.5	26.0	NM
	6/19/2008	13.73	726	0.16	6.29	100.5	1.0	30.0	NM	NM	NM	1.5	30.0	NM
	1/14/2009	9.68	298	1.50	7.73	4.0	1.0	2.3	NM	NM	NM	12.0	2.3	NM
ļ	6/19/2009	14.24	893	1.19	6.33	154.0	0.0	6.0	NM	NM	NM	1.8	6.0	NM
	12/22/2009	11.55	758	1.53	6.23	177.0	0.0	6.0	NM	NM	NM	1.0	6.0	NM
	6/11/2010	12.89	1271	0.24	6.13	-5.4	1.6	18.0	NM	NM	NM	4.7	18.0	NM
OW	2/10/2002	0.54	700	1.07	6.20	56.6	ND (ND.	ND.	277	ND/	ND (ND f	ND/
OW-0	3/10/2003	9.54	700	1.07	6.32	56.6	NM	NM	NM	NM NM	NM	NM	NM	NM
	5/4/2004 6/17/2004	8.91 10.65	1,083 571	0.29	7.89 6.25	172.7 35.6	NM 3.8	NM 18.0	NM NM	NM NM	NM NM	NM 0.4	NM 18.0	NM 130
	7/13/2004	11.02	736	0.29	8.87	13	3.8	32.0	NM NM	NM NM	NM NM	0.4	32.0	NM
	1/4/2005	13.06	1,055	1.24	6.26	107.3	3.8	44.0	NM	NM	NM	1.7	44.0	NM
	5/6/2005	10.16	995	1.06	6.17	19.5	2.8	22.0	NM	NM	NM	0	22.0	NM
	8/1/2005	16.76	621	3.08	6.22	167.1	0.0	29.0	NM	NM	NM	0.0	29.0	NM
	12/8/2005	10.76	696	10.25	6.22	365.6	0.0	44.0	NM	NM	NM	1.1	44.0	NM
	2/2/2006	8.56	802	3.75	6.46	186.7	21.0	26.0	NM	NM	NM	0.9	26.0	NM
	5/26/2006	10.34	231	2.45	6.69	275.5	0.8	12.0	NM	NM	NM	8.8	12.0	NM
	9/1/2006	13.43	379	0.45	6.19	38.5	>3.0	20.0	NM	NM	NM	0.8	20.0	NM
	12/13/2006	11.82	904	1.56	7.09	-32	3.4	6.0	NM	NM	NM	8.6	6.0	NM
	3/30/2007	7.76	619	3.05	6.17	42.6	0.0	3.0	NM	NM	NM	0.9	3.0	NM
•	6/25/2007	12.00	746	2.73	6.45	-179.1	0.64	16.0	NM	NM	NM	72.0	16.0	NM
	1/8/2008	10.93	1,607	0.19	6.63	-4.9	1.8	11.0	NM	NM	NM	1.6	11.0	NM
	6/19/2008	11.54	1,266	0.33	6.20	76.7	6.0	38.0	NM	NM	NM	1.5	38.0	NM
	1/14/2009	8.55	512	3.96	7.40	1.0	0.0	1.0	NM	NM	NM	1.4	1.0	NM
•	6/16/2009	10.99	779	0.59	6.37	67.8	1.8	23.0	NM	NM	NM	2.4	23.0	NM
•	12/22/2009	10.81	486	4.74	6.12	141.5	0.3	5.0	NM	NM	NM	0.5	5.0	NM
	6/11/2010	10.68	1,023	0.22	6.22	-33.4	3.2	8.0	NM	NM	NM	1.6	8.0	NM
OW-P	7/13/2004	10.65	437	1.36	8.83	472	1.1	31.0	NM	NM	NM	0.1	31.0	NM
]	1/4/2005	112	672	5.04	6.24	239.4	0.6	7.0	NM	NM	NM	0.4	7.0	NM
	5/6/2005	10.52	602	2.88	5.80	70.3	0.0	11.0	NM	NM	NM	0.7	11.0	NM
	8/1/2005	17.37	1,278	3.51	5.90	322.9	0.0	13.0	NM	NM	NM	0.3	13.0	NM
	12/8/2005	9.60	349	7.20	6.05	367.6	0.0	39.0	NM	NM	NM	3.1	39.0	NM
	2/2/2006	7.43	761	1.19	6.45	170.1	0.31	9.0	NM	NM	NM	0.7	9.0	NM
	5/26/2006	10.03	175	4.41	6.52	401.1	0.6	12.0	NM	NM	NM	0.8	12.0	NM
	9/1/2006	14.92	653	2.49	5.69	202.9	0.04	0.0	NM	NM	NM	0.5	0.0	NM
,	3/30/2007	6.64	292	2.07	5.59	63.3	0.0	0.0	NM	NM	NM	0.9	0.0	NM
	6/25/2007	11.91	981	1.07	5.77	-150.8	0.33	18.0	NM	NM	NM	8.9	18.0	NM
	1/7/2008	7.96	700	2.36	6.22	272	0.0	13.0	NM	NM	NM	12	13.0	NM
	6/19/2008	12.23	1,670	0.46	5.67	181.1	0.0	5.0	NM	NM	NM	1.4	5.0	NM
,	1/14/2009	7.81	365	0.26	7.33	42	0.0	11.0	NM	NM	NM	1.0	11.0	NM
,	6/19/2009	12.35	1,210	2.40	5.62	154.9	0.0	12.0	NM	NM NM	NM	1.6	12.0	NM NM
	12/22/2009	9.40	571	0.64	5.48	81.8	0.01	10.0	NM	NM	NM	1.6	10.0	NM
	6/11/2010	10.69	1,330	2.08	5.41	65.6	0.6	6.0	NM	NM	NM	1.3	6.0	NM

Table 3 Geochemical and Monitored Natural Attenuation Data

Well ID	Date	Field Temperature (°C)	Field Conductivity (µS/cm)	Field DO (mg/L)	Field pH (S.U.)	ORP (mV)	Ferrous Iron (mg/l)	Sulfate (mg/L)	Dissolved Iron (mg/L)	Dissolved Manganese (mg/L)	Methane (ug/L)	Nitrate (mg/L)	Sulfate (mg/L)	Total Alkalinity (mg/L as CaCO ₃)
OW-Q	7/13/2004	10.20	1,691	0.23	8.52	120.8	0.0	26.0	NM	NM	NM	0.7	26.0	NM
	5/6/2005	9.95	1,977	1.74	5.18	107.3	0.1	17.0	NM	NM	NM	0.0	17.0	NM
	8/1/2005	16.64	6.06	0.94	5.64	300.2	0.0	15.0	NM	NM	NM	0.0	15.0	NM
	12/8/2005	7.69	436	4.66	5.71	362.3	0.0	11.0	NM	NM	NM	1.6	11.0	NM
	2/2/2006	4.80	2,379	0.12	6.16	215.0	2.18	9.0	NM	NM	NM	1.5	9.0	NM
	5/26/2006	12.70	231	1.66	6.26	253.2	1.4	10.0	NM	NM	NM	0.9	10.0	NM
	9/1/2006	19.32	261	0.43	5.93	85.3	0.25	14.0	NM	NM	NM	0.8	14.0	NM
	3/30/2007	4.55	860	1.05	5.65	26.7	2.7	33.0	NM	NM	NM	0.9	33.0	NM
	6/25/2007	14.18	1,003	0.20	6.07	-180.4	2.53	12.0	NM	NM	NM	32.0	12.0	NM
•	1/7/2008	6.94	3,194	0.13	6.09	24.6	3.6	1.0	NM	NM	NM	27.0	1.0	NM
OW-R	7/13/2004	10.24	1,343	1.42	8.18	174.5	0.4	27.0	NM	NM	NM	0.8	27.0	NM
•	1/4/2005	12.52	1,495	2.63	5.71	219.8	0.0	10.0	NM	NM	NM	1.4	10.0	NM
•	5/6/2005	10.25	1,697	1.79	5.58	89.1	0.0	16.0	NM	NM	NM	0.4	16.0	NM
	8/1/2005	15.64	498	0.90	5.91	290.1	0.0	8.0	NM	NM	NM	0.5	8.0	NM
	12/8/2005	10.36	573	8.70	6.03	342.7	0.0	6.0	NM	NM	NM	0.7	6.0	NM
	2/2/2006	5.80	2,294	2.42	6.56	201.5	0.03	17.0	NM	NM	NM	1.0	17.0	NM
	5/26/2006	10.85	180	2.09	6.26	348.1	0.9	15.0	NM	NM	NM	2.6	15.0	NM
Ī	9/1/2006	18.68	212	0.63	6.23	121.8	0.09	28.0	NM	NM	NM	0.6	28.0	NM
- - -	12/13/2006	11.82	462	1.56	7.09	-32	3.4	6.0	NM	NM	NM	8.6	6.0	NM
	3/30/2007	7.54	913	1.18	5.69	60.9	0.0	23.0	NM	NM	NM	1.0	23.0	NM
	6/25/2007	13.11	849	0.17	6.03	-150.1	26.0	10.0	NM	NM	NM	9.8	10.0	NM
	1/7/2008		•		•		Could not	Locate due	e to Snow C	over				
OW-S	3/10/2003	10.12	464	3.99	6.13	91.5	NM	NM	NM	NM	NM	NM	NM	NM
OW-S	5/4/2004	NL	NL	NL	NL	NL	NL	NL	NM	NM	NM	NL	NL	NL NL
F	6/17/2004	NL NL	NL NL	NL	NL NL	NL	NL NL	NL NL	NM	NM	NM	NL NL	NL NL	NL NL
-	5/6/2005	INL	NL	INL	NL		ORY	NL	INIVI	INIVI	INIVI	NL	NL	NL
-	8/1/2005						ORY							
F	12/8/2005	10.53	382	14.97	6.03	388.4	0.0	8.0	NM	NM	NM	1.0	8.0	NM
-	2/2/2006	6.40	1,105	7.20	8.04	154.4	0.01	7.0	NM	NM	NM	1.4	7.0	NM
-	5/26/2006	9.81	1,103	11.66	6.34	352.4	0.01	22.0	NM	NM	NM	0.7	22.0	NM
-	12/13/2006	1227	523	2.09	6.70	143.5	0.7	14.0	NM	NM	NM	82	14.0	NM
-			305	2.40				10.0				0.7		
}	3/30/2007 6/25/2007	10.34 11.56	612	0.62	5.79 6.04	59.1 65.3	0.0	14.0	NM NM	NM NM	NM NM	0.7	10.0	NM NM
ŀ	1/7/2008	11.38	826	0.62	6.57	-57.5	1.4	27.0	NM	NM NM	NM	1.0	27.0	NM NM
}	6/19/2008	11.38	826	0.58	5.17	-57.5 216.6	0.0	5.0	NM NM	NM NM	NM NM	0.7	5.0	NM NM
}	1/14/2009	10.53	535	1.82	7.46	2.7	0.0	12.0	NM NM	NM NM	NM NM	1.6	12.0	NM NM
ŀ	6/19/2009	11.88	1,024	0.90	5.73	122.8	0.0	14.0	NM	NM NM	NM	1.5	14.0	NM NM
ŀ	12/23/2009	10.88	698	0.90	5.72	102.3	0.0	12.0	NM	NM NM	NM	1.3	12.0	NM NM
}	6/11/2010	10.88	962	0.95	5.72	57.4	0.0	4.0	NM NM	NM NM	NM NM	0.9	4.0	NM NM
}	6/11/2010	14.00	962 875	5.43	5.52	275.1	0.0	13.1	NM NM	NM NM	NM NM	1.5	13.1	18.4
ŀ	0/28/2011	14.00	8/3	3.43	3.34	2/3.1	0.0	15.1	INIVI	INIVI	INIVI	1.3	13.1	18.4
OW- U	7/13/2004	11.02	922	4.29	8.29	129.4	0.0	8.0	NM	NM	NM	0.9	8.0	NM
Ţ	6/25/2007	13.00	336	3.12	5.81	121.3	27	17.0	NM	NM	NM	8.7	17.0	NM
Į	6/25/2007	13.00	336	3.12	5.81	121.3	27	17.0	NM	NM	NM	8.7	17.0	NM
Votes.														OA/OC INFO:

Notes:

 $^{\circ}C = Degrees \ Celsius. \ mg/L = Micrograms \ per \ Liter \ (ppb). \ \mu S/cm = MicroSiemens \ per \ centimeter. \ mV = Milli Volts. \ mg/l = Milli grams \ per \ Liter. \ NM = Not \ Measured.$

NR = Not Recorded. NL= Not Located

 $Field = Measured \ in \ the \ field \ utilizing \ a \ Horiba \ Water \ Analyzer.$

QA/QC INFO: LAST UPDATED

BY: AK

DATE: 1/3/2019 LAST CHECKED

BY: DF DATE: 2/9/2018

Table 4 Lines of Evidence for MNA **December 2018 Groundwater Sampling**

Well Location	DO	рН	ORP	Dissolved Iron (mg/kg)	Dissolved Manganese (mg/kg)	Methane (mg/kg)	Nitrate (mg/kg)	Sulfate (mg/kg)		
Upgradient Area	High	Neutral	High	Low	Low	Low	High	High		
Target Area	Low	Low	Low	High	High	High	Low	Low		
Outside Target Area	High	Neutral	High	Low	Low	Low	High	High		
		Aerobic Trends		Anaerobic Trends						
Well Location	DO	рН	ORP	Dissolved Iron (mg/kg)	Dissolved Manganese (mg/kg)	Methane (mg/kg)	Nitrate (mg/kg)	Sulfate (mg/kg)		
Outside Target Area (OW-12)	0.76	6.24	-66.1	0.45	0.51	0.14	1.5	45		
Target Area (OW-13)	0.33	6.05	-99.70	0.86	0.17	0.29	0.4	2.2		
Downgradient Area (OW-ED)	0.99	7.39	-32.40	< 0.050	0.024	< 0.0070	< 0.050	37		
Conclusion	+/-	+/-	+/-	+/-	_	+/-	+/-	+		

Notes:

- indicates natural attenuation is occurring based on monitoring result
- indicates natural attenuation is not occurring based on monitoring result
- +/- indicates natural attenuation is inconclusive by monitoring results

McAllister, P.M., and Chiang, C.Y. 1994. A Practical Approach to Evaluating Natural

Attenuation of Contaminants in Ground Water. GWMR Spring 1994: 161-173. NA=Not analyzed

Table 5 Public Involvement Plan Mailing List Global Companies, LLC 309 Lowell Street (Station #1436) Andover, Massachusetts ATC Project No. 95-214880

Party	Business	Street Address	City/Town	2/2019 Mailings Status
The Andover Townsman	Town of Andover	Editorial Department - 33 Chestnut Street	Andover, MA 01810	mailed
Andover Board of Health	Town of Andover	36 Bartlet Street	Andover, MA 01810	mailed
Andover Board of Selectmen	Town of Andover	36 Bartlet Street	Andover, MA 01810	mailed
Conservation Law Foundation	N/A	62 Summer Street	Boston, MA 02108	mailed
Mr. Mark Curtin	N/A	67 Abbot Street	Andover, MA 01810	mailed
Department of Community	Town of Andover	36 Bartlet Street	Andover, MA 01810	mailed
Mr. and Mrs. Frank Firicano	N/A	110 Abbot Street	Andover, MA 01810	mailed
Ms. Kaija Gilmore	N/A	83 Elm Street	Andover, MA 01810	mailed
Mr. Donald Cooper	Andover Conservation Commission	36 Bartlet Street	Andover, MA 01810	mailed
Mr. Ronald Hill	N/A	15 Abbot Street	Andover, MA 01810	mailed
Lawrence Eagle Tribune	News Room	P.O. Box 100	Lawrence, MA 01842	mailed
Mr. Scott Matsumoto	N/A	15 Windemere Drive	Andover, MA 01810	mailed
Merrimack River Watershed Council	N/A	60 Island Street #2	Lawrence, MA 01842	mailed
Merrimack Valley Planning Commission	N/A	160 Main Street	Haverhill, MA 01830	mailed
Mr. James Paul	Lowell Street Investments	1 Washington St., Suite 400	Wellesley, MA 02481	mailed
Mr. Jack Petkus	Andover Department of Public Works	Water Treatment Plant, 397 Lowell Street	Andover, MA 01810	mailed
Mr. Robert Pursell	N/A	86 Porter Road	Andover, MA 01810	mailed
Mr. Robert Douglas	Andover Conservation Commission	36 Bartlet Street	Andover, MA 01810	mailed
Residents	N/A	3 Nab Hill Circle	Andover, MA 01810	mailed
Mr. and Mrs. Thomas Richardson	N/A	23 Greenwood Road	Andover, MA 01810	mailed
Ms. Karen Stromberg	MassDEP	One Winter Street	Boston, MA 02108	mailed
Deputy Assistant Commissioner, BWSC	MassDEP	One Winter Street	Boston, MA 02108	mailed

REMEDY OPERATION STATUS REPORT 309 Lowell Street Andover, Massachusetts

ATTACHMENT I

CONCEPTUAL SITE MODEL

Conceptual Site Model Mobil Station #1436 309 Lowell Street, Andover, MA MassDEP RTN 3-3072

The Site consists of a 0.51 acre parcel located within a commercially zoned area of Andover. According to previous environmental reports prepared by Applied Geosystems, Inc., Groundwater and Environmental Services, Inc. (GES) and Camp, Dresser and McKee, Inc. (CDM), as well as available historical topographic maps and aerial photographs, the Site was first developed as a gasoline filling station circa 1959. Prior to 1959, the property was reportedly part of a dairy farm operation. The area surrounding the Site consists of both commercial businesses and residential properties. The Site is currently improved with a single-story, slab-on-grade construction building improved with a Dunkin Donuts and a convenience store. The Site is serviced by underground municipal water and sanitary sewer utilities as well as overhead electric and communication utilities.

Prior to 1986, the Site was utilized as an automotive repair facility and retail gasoline station.. In 1989 the service bays were remodeled and the building was converted to a convenience store. Former Site features associated with the use of the Site as an automotive repair facility included a former 500-gallon waste oil UST (reportedly removed from the Site in 1987), two hydraulic lifts, floor drains, an oil/water separator, a drywell and a former 550-gallon fuel oil UST (reportedly removed from the Site in 1989).

Sensitive receptors located in the vicinity of the Site include an intermittent stream which flows along the northern boundary of the Site and is a tributary to Fish Brook. Fish Brook discharges into Haggets Pond. The Site is also located within the boundaries of a Zone A Surface Water Supply Protection Area associated with Haggets Pond, which supplies drinking water to the City of Andover. The Haggets Pond surface water intake is located approximately 0.75 miles southwest of the Site. The nearest public water supply (PWS) well is located approximately 1.5 miles to the southeast of the Site. The Site is not located within the boundaries of a Zone II Area, an IWPA or a PPA. According to previous environmental reports, there are no private drinking water supply wells located within 500 ft of the Site. Depth to groundwater beneath the Site has historically been observed at depths ranging from 3 to 13 ft bgs and groundwater has been historically calculated to flow in a north-northeasterly direction beneath the Site.

Potential human receptors present at the Site under current Disposal Site conditions include adult Site workers, adult and child Site visitors/patrons, adult and child trespassers/passersby and adult utility workers. Under potential future Disposal Site conditions, potential human receptors that may be present at the Site include all of the above as well as potential future adult and child residents and adult construction workers.

Due to the Site's location within the boundaries of a Zone A Surface Water Supply Protection Area, MCP Method 1 Risk Characterization Groundwater Category GW-1 applies to all groundwater located beneath the Site. Additionally, due to the average annual depth to groundwater being less than 15 ft bgs, MCP Groundwater Category GW-2 also applies to all groundwater located within 30 ft of an occupied structure at the Site. Lastly, MCP Groundwater Category GW-3 applies to all groundwater in the Commonwealth of Massachusetts. For soil, MCP Category S-1 applies to all soil located between the ground surface and 3 ft bgs in unpaved areas of the Site and MCP Soil Category S-2 applies to all soil located between 3 and 15 ft bgs

beneath paved surface at the Site. Soil located greater than 15 ft bgs or beneath permanent structures at the Site is classified as MCP Category S-3 soil.

The property first became a MassDEP listed Site following the discovery of petroleum impacted soil and groundwater during the removal of a 550-gallon fuel oil UST in November 1989. The contaminants identified were characterized as being related to weathered gasoline. Various environmental reports and remedial response actions have been conducted at the Site since 1989. Remedial response actions conducted at the Site during that timeframe are summarized below:

- Excavation and disposal of approximately 30 yds³ of petroleum impacted soil in November 1989 during former fuel oil UST excavation activities (MassDEP RTN 3-3072);
- Operation of a groundwater recovery, AS, and SVE system at the Site (January 1991 March 2007);
- Completion of IRA activities associated for MassDEP RTN 3-13955 in August of 1996, associated with a release of gasoline from a malfunctioning gasoline UST flex connector (RTN was subsequently linked to RTN 3-3072);
- Completion of IRA activities associated with a SRM condition identified at the Site in May 1998 following the detection of MTBE in a surface water sample collected from the stream located to the north and downgradient of the Site (IRA activities were conducted under MassDEP RTN 3-3072);
- Completion of IRA activities associated with the detection of greater than 0.5 inches of LNAPL in monitoring well MW-2 in September 2001. IRA activities were conducted under MassDEP RTN 3-21062 and included hand bailing of LNAPL and an evaluation of potential LNAPL migration pathways (RTN 3-21062 was subsequently linked to RTN 3-3072);
- September through November 2001 LNAPL hand-bailing activities were conducted at the Site under an IRA for MassDEP RTN 3-21062;
- Excavation and disposal of approximately 160 yds³ of petroleum impacted soil in September 2005 under a RAM during the completion of UST system upgrade activities;
- Excavation and disposal of approximately 756 tons of petroleum impacted soil, the
 extraction, treatment and subsequent discharge of approximately 60,700 gallons of
 groundwater, and the extraction and disposal of approximately 9,000 gallons of
 groundwater during the completion of UST removal and replacement activities in April
 2014; and,
- Performance of an ongoing MNA program under ROS, which includes semi-annual groundwater sampling for VPH and MNA parameters as well as semi-annual surface water sampling (discontinued in June 2012).

The source of Site petroleum hydrocarbon contamination at the Site is attributed to a release of an unknown quantity of gasoline associated with the historical use of the Site as a gasoline filling station. Impacted soil was identified during the excavation and removal of a former 1,000-gallon fuel oil UST at the Site in 1989. Subsequent subsurface investigation activities have indicated that the highest concentrations of petroleum hydrocarbons impacts detected in soil appear to be located immediately down gradient of the current gasoline UST and fuel dispenser systems. Additionally, soil impacts have been observed at depths ranging from approximately 4 to 9 ft bgs in the vicinity of the former fuel oil UST that was located near the southeastern corner of the onsite building.

Historically, dissolved-phase VPH constituents have been detected in groundwater samples collected from both on- and off-site groundwater monitoring wells. Historically, the highest concentrations of dissolved-phase contaminants are located in the vicinity of groundwater monitoring wells OW-13 and MW-2. The furthest historical downgradient detection of VPH constituents (MTBE) has been in downgradient, off-site monitoring well OW-S, located approximately 750 ft from the source area. During the most recent groundwater sampling event completed in December 2017, dissolved-phase VPH target constituents were not detected at concentrations greater than their applicable MCP Method 1 GW-1 groundwater standards in any of the groundwater monitoring wells sampled. Additionally, with the exception of one groundwater sample collected from monitoring well OW-K in January 2008, no groundwater samples collected from any on or off-site monitoring wells have exhibited concentrations of MTBE greater than the MCP Method 1 GW-1 Groundwater Standard for that parameter since at least December 2006.

The Disposal Site boundaries encompass portions of the source property as well as impacted downgradient/cross gradient parcels 151-13, 1151-4, 151-14A, and 151-14B, as identified on the town of Andover tax map #151 and Figure 3. These parcels are occupied by an undeveloped residential property (parcel 13), a golf course and driving range (parcel 14), an apartment complex (parcel 14A), and an athletic club (parcel 14B).

Timeline: key Regulatory Dates MassDEP RTN 3-3072 and Related RTNs 3-13955, 3-21062, and 3-22521

November 1989	Gasoline related petroleum constituents detected in soil and groundwater during UST removal.
January 1990	Phase I Limited Site Investigation completed by Applied Geosystems, Inc. MassDEP RTN 3-3072 assigned to the Site at that time.
October 1993	Site classified as a Tier II Disposal Site.
June 29, 2006	IRA activities initiated following a release of gasoline from a gasoline UST flex connector. RTN 3-13955 assigned to the release condition at that time.
March 23, 1998	IRA Completion Report submitted to the MassDEP by GES for RTN 3-13955, which was linked to RTN 3-3072 at that time.
May 1998	SRM condition reported to the MassDEP following the detection of MTBE in surface water samples collected from downgradient of the Site. Subsequent IRA activities were conducted at the Site under RTN 3-3072.
September 2001	MassDEP RTN 3-21062 issued to the Site following notification of the detection of greater than 0.5 inches of LNAPL in monitoring well MW-2. IRA activities were conducted which including hand bailing of LNAPL and an evaluation of potential LNAPL migration pathways.
November 2001	An IRA Completion report for RTN 3-21062 was filed with the MassDEP, at which time RTN 3-21062 was linked to RTN 3-3072.
September 2002	PCBs were detected in a soil sample collected from a depth range of 6 to 8 ft bgs at a concentration exceeding the MCP RCS-1 Reportable Concentration for that parameter during the performance of subsurface investigation activities. The PCB detection was subsequently reported to the MassDEP in January 2003 and the MassDEP issued RTN 3-22521 to the condition at that time.
July 2003	MassDEP RTN 3-22521 linked to RTN 3-3072.
October 2003	Phase II Comprehensive Site Assessment submitted to MassDEP by GES.
December 2003	Notice of Noncompliance (NON) issued to Exxon Mobil for failure to submit a Phase III RAP, Phase IV RIP, and a RAO. The NON required a RAO or Phase III/Phase IV/ROS Opinion be submitted to the MassDEP on or before September 1, 2004. CDM becomes the consultant of record for the Site.
February 2004	Tier II Extension filed by CDM to continue response actions at the Site.

March 2004 Phase III RAP submitted to the MassDEP by CDM. August 2004 A Phase IV RIP, an IRA Completion Statement (treatment system was previously operated as an IRA), and a ROS Opinion were submitted to MassDEP by CDM. March 30, 2007 The groundwater recovery/AS/SVE treatment system is shut down and the MNA program is implemented at the Site under ROS. Global Companies LLC acquires property, and ECS becomes the September 2010 consultant of record for the Disposal Site. April 7, 2014 ECS submitted a RAM Plan for the proposed Site upgrade activities which included the excavation and removal of three gasoline USTs and installation of two new USTs in their place and the replacement of one of the fuel dispensers. April 2014 A 72-hour reportable condition was encountered when greater than 100 ppm TOVs was detected in soil samples collected in the immediate vicinity of the on-site USTs during UST removal and replacement activities. RTN 3-32096 was assigned to the condition. April 2014 During the completion of the UST removal and soil excavation activities, a total of 756 tons of petroleum-impacted soil was transported off-site to Aggregate Recycling Corporation (ARC) of Eliot, ME. During excavation activities, a total of 60,700 gallons of groundwater was extracted from the UST grave, treated, and discharged to the municipal sewer system. Additionally, approximately 9,000-gallons of water was transported off-site to Newstream for disposal. July 2014 RTN 3-32096 was linked to RTN 3-3072 with the submittal of an IRA Completion Report.

REMEDY OPERATION STATUS REPORT 309 Lowell Street Andover, Massachusetts

ATTACHMENT II

ABBREVIATIONS AND ACRONYMS

Abbreviations and Acronyms

ACEC Area of Critical Environmental Concern ACO Administrative Consent Order ADC Alternative Daily Cover ADD Average Daily Dose ADE Average Daily Exposure AAI All Appropriate Inquiry AOC Area of Concern AWQC Ambient Water Quality Criteria Air Petroleum Hydrocarbon Additional Polluting Substance APH APS

Air Sparge

Aboveground Storage Tank AST ASTM American Society for Testing and Materials

ATG Automatic Tank Gauge

Agency for Toxic Substances and Disease Registry ATSDR

AUL Activity and Use Limitation BMP Best Management Practice Bill of Lading Board of Health BOL вон Below Ground Surface

bgs BTEX Benzene, Toluene, Ethylbenzene, Xylene BUD Beneficial Use Determination Compendium of Analytical Methods Critical Exposure Pathway CAM

CEP

CERCLA Comprehensive Environmental Response, Compensation and Liability Act

cfm Cubic feet per minute CMR Code of Massachusetts Regulations COC Contaminant of Concern ConCom Conservation Commission CORRACTS Corrective Action Report

Comprehensive Remedial Action Controlled Recognized Environmental Conditions CRA CREC

CSA Comprehensive Site Assessment CSF Cancer Slope Factor Conceptual Site Model CSM

CTDEEP Connecticut Department of Energy and Environmental Protection

CTDPH Connecticut Department of Public Health

DEC (R/CI) Direct Exposure Criteria (Residential/Commercial Industrial) DEQE Department of Environmental Quality Engineering

DNAPL Dense Non-Aqueous Phase Liquid

Dissolved Oxygen DO Date of Service Downgradient Property Status DOS

DPS DPW Department of Public Works Data Qaulity Assessment Data Qaulity Objective DQA DOO DUE Data Usability Evaluation DWSA Drinking Water Source Area Environmental Compliance Services, Inc.

ECS EDB

Ethylene Dibromide Environmental Data Resources Inc. EDR EDR Historical Automobile EDR Hist Auto Enhanced Fluid Recovery Excess Lifetime Cancer Risk EFR ELCR Environmental Land Use Restriction ELUR

EP Exposure Point

EPC Exposure Point Concentration

FPH Extractable Petroleum Hydrocarbons, MADEP Method 04-1.1

ERNS Emergency Response Notification System Environmental Site Assessment ESA ETPH Extractable Total Petroleum Hydrocarbons

Extraction Well EW Feet Below Grade fbg Final Inspection Report Fractionation Tank FIR frac tank

Class GA Groundwater Classification Area GA

GAC Granular Activated Carbon

Class GB Groundwater Classification Area GB GC/FID Gas Chromatogram/Flame Ionization Detector Geographic Information System

GIS Gallons per minute gpm Gallons per Day gpd Gallons per Year gpy GPR Ground Penetrating Radar GW Groundwater

GWPC Ground Water Protection Criteria GW P&T Groundwater Pump and Treat Groundwater Treatment System GWTS GW-1, GW-2, GW-3 MCP Method 1 Groundwater Categories

н Hazard Index

HITME High Intensity Targeted Multi-Phase Extraction

hp HREC

Historical Recognized Environmental Conditions HW GEN Hazardous Waste Generator

IAS Indoor Air Sample

I/C DEC Industrial/Commercial Direct Exposure Criteria

in. HG inches of mercury ID Inside Diameter Imminent Hazard Evaluation IHE Immediate Response Action Integrated Risk Information System IRIS In Situ Chemical Oxidation ISCO

IW Injection Well

IWPA Interim Wellhead Protection Area

Abbreviations and Acronyms

kg LCSM

Kilogram LNAPL Conceptual Site Model Lower Explosive Limit

Licensed Environmental Professional Liquid-Phase Granular Activated Carbon LEP LGAC LNAPL Light Non-Aqueous Phase Liquid LRA Limited Removal Action Limited Subsurface Investigation LSI LSP Licensed Site Professional MBAS Methyl Blue Active Substance MCP Massachusetts Contingency Plan MDI. Method Detection Limit

M.G.L.c. 21E Massachusetts General Law, chapter 21E milligram mg mg/g milligrams per gram mg/m³ milligrams per cubic meter me/L milligrams per liter Monitored Natural Attenuation MNA Mod Modification Multi-Phase Extraction MPE MSDS Material Safety Data Sheet Material Shipping Record and Log Mean Sea Level MSR

MtBE Methyl Tertiary Butyl Ether MW

Monitoring Well
Non-detect - not detected above instrument detection limit. ND

NFRAP No Further Remedial Action Planned Nanogram per cubic meter ng/m³ National Geodetic Vertical Datum Notice of Audit Findings NGVD NOAF Notice of Intent NON Notice of Noncompliance NOR Notice of Responsibility

NPDES National Pollutant Discharge Elimination System

NPL. National Priority List Numerical Ranking System NRS OD Outside Diameter Oil and Hazardous Materials OHM

Operation, Maintenance and/or Monitoring

OOC Order of Conditions Oxygen Releasing Compound ORC ORP Oxidation-Reduction Potential

ORS MassDEP Office of Research and Standards Occupational Safety and Health Administration OSHA OSWER EPA Office of Solid Waste and Emergency Response

ows Oil Water Separator

Polynuclear Aromatic Hydrocarbon PAH PAOC Potential Area of Concern

PARCSS Precision, Accuracy, Representativeness, Comparability, Completeness and Sensitivity Polychlorinated Biphenyl PCB

PDWW Private Drinking Water Well Permissible Exposure Limit PEL Phase I Phase I Initial Site Investigation Phase I ESA Phase I Environmental Site Assessment Phase II Comprehensive Site Assessment Phase II CSA Phase II ESA

Phase II Environmental Site Assessment
Phase III Identification, Evaluation and Selection of Comprehensive Remedial Action Alternatives Phase III RAP

Phase IV RIP Phase IV – Implementation of Selected Remedial Action Alternative PIANO

Parffin, isoparaffin, aromatic, naphthene, and olefin hydrocarbons Photoionization Detector PID Pollutant Mobility Criteria

POET Point of Entry Treatment Publicaly Owned Treatment Works POTW Potentially Productive Aquifer ppb Parts-per-Billion Parts-per-Million ppm Parts per million (by volume) ppm(v) Parts per thousand Potentially Responsible Party Permanent Solution Statement Polyvinyl Chloride

PVC QAPP Quality Assessment Project Plan RAA Remedial Action Alternative Release Ammendment Form RAF RAF's Relative Absorption Factors RAM Release Abatement Measure Response Action Outcome RAO RAP Remedial Action Plan

Response Action Performance Standards RAPS Risk Based Concentration

Risk Characterization Reportable Concentrations RCs

RCGW-l, RCGW-2 RCS-l, RCS-Reportable Concentration Groundwater/Soil Categories

RCP Reasonable Confidence Protocols Resource Conservation and Recovery Act RCRA RCSA Regulations of Connecticut State Agencies REC Recognized Environmental Condition Residential Direct Exposure Criteria RES DEC

RES SAT Residual Saturation RfD Reference Dose Remedial General Permit RIP Remedy Implementation Plan RMR Remedial Monitoring Report Release Log Form RNF Release Notification Form Remedy Operation Status ROS Reporting Limit

Abbreviations and Acronyms

ROS Report Phase V Inspection and Monitroing Report in Support of ROS

Remediation Standard Regulations RSR Release Tracking Number RVC Residential Volatilization Criteria Recovery Well RW Scfm Standard cubic feet per minute Square Feet MCP Method 1 Soil Categories S-1, S-2, S-3

SHWS State Hazardous Waste Site Standard Operating Procedures SOP SOW Scope-of-Work

SPL P

Synthetic Percipitation Leaching Procedure

SQG Small Quantity Generator Substantial Release Migration SSDS Sub-Slab Depressurization System Soil Vapor Extraction SVE SVOC Semi Volatile Organic Compound Soil Vapor Volatilazation Criteria Surface Water Protection Criteria SVVP SWPC SWQG Surface Water Quality Guidance TAC

Target Indoor Air Concentration
Toxicity Characteristic Leaching Procedure TCLP TDA Temporary Remedial Discharge Permit Authorization

Total Organic Carbon TOC TOR Threat of Release Total Organic Vapors Total Petroleum Hydrocarbons TOVs TPH UCL Upper Concentration Limit micrograms per gram micrograms per kilogram ug/g ug/Kg

ug/L micrograms per liter ug/m³ microgram per cubic meter HWM Uniform Hazaradous Waste Manifest

UHWMTN Uniform Hazaradous Waste Manifest Tracking Number

Underground Storage Tank UST

USTCPA Underground Storage Tank Petroleum Clean-Up Account

USTPCP Underground Storage Tank Petroleum Clean-Up Account Program

UTM Universal Transverse Mercator High Vacuum Extractor Vactor VC.

Volatilzation Criteria Vacuum Enhanced Groundwater Extraction VEGE VGAC Vapor-Phase Granular Activated Carbon

VIP Vapor Intrusion Pathway Volatile Organic Compound VOC

VPH Volatile Petroleum Hydrocarbons, MADEP Method 04-1.1

WPA Wetlands Protection Act Waste Water Treatment Plant WWTP

REGULATORY AGENCIES

BWSC Bureau of Waste Site Cleanup

CTDEEP Connecticut Department of Energy and Environmental Protection Connecticut Department of Public Health

CTDPH

MassDEP Massachusetts Department of Environmental Protection MassDOT Massachusetts Department of Transportation Massachusetts Department of Revenue MassDOR MassGIS NHESP Massachusetts Geographic Information System National Heritage & Endangered Species Program RIDEM Rhode Island Department of Environmental Management USEPA United States Environmental Protection Agency

United States Geologic Survey USGS

SUBCONTRACTORS

ATC ATC Group Services, LLC

CHI

Clean Harbors, Inc. Cyn Environmental Services, Inc., Stoughton, MA Cyn Drilex Drilex Environmental, West Boylston, MA ECS Environmental Compliance Services, Inc. Environmental Soil Management, Inc., Loudon, NH ESMI Eurofins/Spectrum Eurofins/Spectrum Analytical, Inc., Agawam, MA

Geolabs, Inc., Braintree, MA Geolabs Geosearch, Inc - Westminster, MA Geosearch LaMountain Brothers, Inc, Oxford, MA New Hampshire Boring, Inc., Londonderry, NH LaMountain New Hampshire Boring

Ondrick Ted Ondrick Company, LLC

STI

Service Tech, Inc. Tanknology, Inc., Austin, TX Tanknology

REMEDY OPERATION STATUS REPORT 309 Lowell Street Andover, Massachusetts

ATTACHMENT III

LABORATORY ANALYTICAL RESULTS

December 11, 2018

Aaron Kaczowka ATC - Worcester 240 Barber Avenue Worcester, MA 01607

Project Location: 309 Lowell Street, Andover, MA

Client Job Number:

Project Number: 95-214880

Laboratory Work Order Number: 18L0059

Emily Snyd

Enclosed are results of analyses for samples received by the laboratory on December 4, 2018. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Emily E. Snyder Project Manager

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ATC - Worcester 240 Barber Avenue Worcester, MA 01607

ATTN: Aaron Kaczowka

REPORT DATE: 12/11/2018

PURCHASE ORDER NUMBER:

PROJECT NUMBER: 95-214880

ANALYTICAL SUMMARY

WORK ORDER NUMBER: 18L0059

The results of analyses performed on the following samples submitted to the CON-TEST Analytical Laboratory are found in this report.

PROJECT LOCATION: 309 Lowell Street, Andover, MA

FIELD SAMPLE #	LAB ID:	MATRIX	SAMPLE DESCRIPTION	TEST	SUB LAB	
MW-4	18L0059-01	Ground Water		MADEP-VPH-Feb 2018 Rev 2.1		
MW-3	18L0059-02	Ground Water		MADEP-VPH-Feb 2018 Rev 2.1		
OW-13	18L0059-03	Ground Water		ASTM D516-11		
				MADEP-VPH-Feb		
				2018 Rev 2.1 RSK175		
				SM 21-22 4500 NO	3 F	
				SW-846 6010D	•	
OW-12	18L0059-04	Ground Water		ASTM D516-11		
				MADEP-VPH-Feb		
				2018 Rev 2.1		
				RSK175		
				SM 21-22 4500 NO	3 F	
				SW-846 6010D		
MW-ED	18L0059-05	Ground Water		ASTM D516-11		
				MADEP-VPH-Feb		
				2018 Rev 2.1 RSK175		
				SM 21-22 4500 NO	3 E	
				SW-846 6010D	<i>7</i> 1	
MW-2B	18L0059-06	Ground Water		MADEP-VPH-Feb		
W W-2B	1820039-00	Ground water		2018 Rev 2.1		
MW-1	18L0059-07	Ground Water		ASTM D516-11		
				MADEP-VPH-Feb		
				2018 Rev 2.1		
				RSK175		
				SM 21-22 4500 NO	3 F	
				SW-846 6010D		



CASE NARRATIVE SUMMARY

All reported results are within defined laboratory quality control objectives unless listed below or otherwise qualified in this report.

MADEP-VPH-Feb 2018 Rev 2.1

No significant modifications were made to the method. All VPH samples were received preserved properly at pH <2 in the proper containers as specified on the chain-of-custody form unless specified in this narrative.

Analytical column used for VPH analysis is Restek, Rtx-502.2, 105meter, 0.53mmID, 3um df. Trap used for VPH analysis is Carbopack B/CarboSieveS-III.

The results of analyses reported only relate to samples submitted to the Con-Test Analytical Laboratory for testing.

I certify that the analyses listed above, unless specifically listed as subcontracted, if any, were performed under my direction according to the approved methodologies listed in this document, and that based upon my inquiry of those individuals immediately responsible for obtaining the information, the material contained in this report is, to the best of my knowledge and belief, accurate and complete.

Tod E. Kopyscinski Laboratory Director



Project Location: 309 Lowell Street, Andover, MA Work Order: 18L0059 Sample Description:

Date Received: 12/4/2018

Sampled: 12/3/2018 09:59 Field Sample #: MW-4

Sample ID: 18L0059-01 Sample Matrix: Ground Water

Petroleum Hydrocarbons Analyses - VPH

							Date	Date/Time	
Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Prepared	Analyzed	Analyst
Unadjusted C5-C8 Aliphatics	ND	100	$\mu g/L$	1		MADEP-VPH-Feb 2018 Rev 2.1	12/6/18	12/6/18 13:05	EEH
C5-C8 Aliphatics	ND	100	$\mu g/L$	1		MADEP-VPH-Feb 2018 Rev 2.1	12/6/18	12/6/18 13:05	EEH
Unadjusted C9-C12 Aliphatics	ND	100	$\mu g/L$	1		MADEP-VPH-Feb 2018 Rev 2.1	12/6/18	12/6/18 13:05	EEH
C9-C12 Aliphatics	ND	100	μg/L	1		MADEP-VPH-Feb 2018 Rev 2.1	12/6/18	12/6/18 13:05	EEH
C9-C10 Aromatics	ND	100	$\mu g/L$	1		MADEP-VPH-Feb 2018 Rev 2.1	12/6/18	12/6/18 13:05	EEH
Benzene	ND	1.0	$\mu g/L$	1		MADEP-VPH-Feb 2018 Rev 2.1	12/6/18	12/6/18 13:05	EEH
Ethylbenzene	ND	1.0	$\mu g/L$	1		MADEP-VPH-Feb 2018 Rev 2.1	12/6/18	12/6/18 13:05	EEH
Methyl tert-Butyl Ether (MTBE)	ND	1.0	$\mu g/L$	1		MADEP-VPH-Feb 2018 Rev 2.1	12/6/18	12/6/18 13:05	EEH
Naphthalene	ND	5.0	$\mu g/L$	1		MADEP-VPH-Feb 2018 Rev 2.1	12/6/18	12/6/18 13:05	EEH
Toluene	ND	1.0	$\mu g/L$	1		MADEP-VPH-Feb 2018 Rev 2.1	12/6/18	12/6/18 13:05	EEH
m+p Xylene	ND	2.0	$\mu g/L$	1		MADEP-VPH-Feb 2018 Rev 2.1	12/6/18	12/6/18 13:05	EEH
o-Xylene	ND	1.0	$\mu g/L$	1		MADEP-VPH-Feb 2018 Rev 2.1	12/6/18	12/6/18 13:05	EEH
Surrogates		% Recovery	Recovery Limits		Flag/Qual				
2,5-Dibromotoluene (FID)		109	70-130					12/6/18 13:05	
2 5-Dibromotoluene (PID)		110	70-130					12/6/18 13:05	

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
2,5-Dibromotoluene (FID)	109	70-130		12/6/18 13:05
2,5-Dibromotoluene (PID)	119	70-130		12/6/18 13:05



Project Location: 309 Lowell Street, Andover, MA Work Order: 18L0059 Sample Description:

Date Received: 12/4/2018

Sampled: 12/3/2018 10:20 Field Sample #: MW-3

Sample ID: 18L0059-02 Sample Matrix: Ground Water

Petroleum Hydrocarbons Analyses - VPH

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Unadjusted C5-C8 Aliphatics	ND	100	μg/L	1	g C	MADEP-VPH-Feb 2018 Rev 2.1	12/6/18	12/6/18 13:35	EEH
C5-C8 Aliphatics	ND	100	μg/L	1		MADEP-VPH-Feb 2018 Rev 2.1	12/6/18	12/6/18 13:35	EEH
Unadjusted C9-C12 Aliphatics	170	100	$\mu g/L$	1		MADEP-VPH-Feb 2018 Rev 2.1	12/6/18	12/6/18 13:35	EEH
C9-C12 Aliphatics	170	100	$\mu g/L$	1		MADEP-VPH-Feb 2018 Rev 2.1	12/6/18	12/6/18 13:35	EEH
C9-C10 Aromatics	140	100	$\mu g/L$	1		MADEP-VPH-Feb 2018 Rev 2.1	12/6/18	12/6/18 13:35	EEH
Benzene	ND	1.0	$\mu g/L$	1		MADEP-VPH-Feb 2018 Rev 2.1	12/6/18	12/6/18 13:35	EEH
Ethylbenzene	ND	1.0	$\mu g/L$	1		MADEP-VPH-Feb 2018 Rev 2.1	12/6/18	12/6/18 13:35	EEH
Methyl tert-Butyl Ether (MTBE)	ND	1.0	μg/L	1		MADEP-VPH-Feb 2018 Rev 2.1	12/6/18	12/6/18 13:35	EEH
Naphthalene	ND	5.0	$\mu g/L$	1		MADEP-VPH-Feb 2018 Rev 2.1	12/6/18	12/6/18 13:35	EEH
Toluene	ND	1.0	μg/L	1		MADEP-VPH-Feb 2018 Rev 2.1	12/6/18	12/6/18 13:35	EEH
m+p Xylene	ND	2.0	$\mu g/L$	1		MADEP-VPH-Feb 2018 Rev 2.1	12/6/18	12/6/18 13:35	EEH
o-Xylene	ND	1.0	μg/L	1		MADEP-VPH-Feb 2018 Rev 2.1	12/6/18	12/6/18 13:35	EEH
Surrogates		% Recovery	Recovery Limits	3	Flag/Qual				
2,5-Dibromotoluene (FID)		108	70-130					12/6/18 13:35	
2.5 Dibromotolyana (BID)		105	70.120					12/6/19 12:25	



Project Location: 309 Lowell Street, Andover, MA Sample Description: Work Order: 18L0059

Date Received: 12/4/2018

Field Sample #: OW-13 Sampled: 12/3/2018 11:00

Sample ID: 18L0059-03
Sample Matrix: Ground Water

Petroleum Hydrocarbons Analyses - VPH

							Date	Date/Time	
Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Prepared	Analyzed	Analyst
Unadjusted C5-C8 Aliphatics	ND	100	μg/L	1		MADEP-VPH-Feb 2018 Rev 2.1	12/5/18	12/6/18 2:49	EEH
C5-C8 Aliphatics	ND	100	$\mu g/L$	1		MADEP-VPH-Feb 2018 Rev 2.1	12/5/18	12/6/18 2:49	EEH
Unadjusted C9-C12 Aliphatics	190	100	μg/L	1		MADEP-VPH-Feb 2018 Rev 2.1	12/5/18	12/6/18 2:49	EEH
C9-C12 Aliphatics	190	100	μg/L	1		MADEP-VPH-Feb 2018 Rev 2.1	12/5/18	12/6/18 2:49	EEH
C9-C10 Aromatics	160	100	μg/L	1		MADEP-VPH-Feb 2018 Rev 2.1	12/5/18	12/6/18 2:49	EEH
Benzene	ND	1.0	μg/L	1		MADEP-VPH-Feb 2018 Rev 2.1	12/5/18	12/6/18 2:49	EEH
Ethylbenzene	1.4	1.0	μg/L	1		MADEP-VPH-Feb 2018 Rev 2.1	12/5/18	12/6/18 2:49	EEH
Methyl tert-Butyl Ether (MTBE)	ND	1.0	μg/L	1		MADEP-VPH-Feb 2018 Rev 2.1	12/5/18	12/6/18 2:49	EEH
Naphthalene	ND	5.0	μg/L	1		MADEP-VPH-Feb 2018 Rev 2.1	12/5/18	12/6/18 2:49	EEH
Toluene	ND	1.0	μg/L	1		MADEP-VPH-Feb 2018 Rev 2.1	12/5/18	12/6/18 2:49	EEH
m+p Xylene	2.9	2.0	μg/L	1		MADEP-VPH-Feb 2018 Rev 2.1	12/5/18	12/6/18 2:49	EEH
o-Xylene	ND	1.0	μg/L	1		MADEP-VPH-Feb 2018 Rev 2.1	12/5/18	12/6/18 2:49	EEH
Surrogates		% Recovery	Recovery Limits	3	Flag/Qual				
2,5-Dibromotoluene (FID)		116	70-130					12/6/18 2:49	
2,5-Dibromotoluene (PID)		122	70-130					12/6/18 2:49	

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Project Location: 309 Lowell Street, Andover, MA Sample Description: Work Order: 18L0059

Date Received: 12/4/2018

Field Sample #: OW-13 Sampled: 12/3/2018 11:00

Sample ID: 18L0059-03
Sample Matrix: Ground Water

Miscellaneous Organic Analyses

								Date	Date/Time	
	Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Prepared	Analyzed	Analyst
Methane		0.29	0.0070	mg/L	1		RSK175	12/7/18	12/7/18 12:02	ТРН



Project Location: 309 Lowell Street, Andover, MA Sample Description: Work Order: 18L0059

Date Received: 12/4/2018

Field Sample #: OW-13 Sampled: 12/3/2018 11:00

Sample ID: 18L0059-03
Sample Matrix: Ground Water

Metals Analyses (Dissolved)

								Date	Date/Time	
	Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Prepared	Analyzed	Analyst
Iron		0.86	0.050	mg/L	1		SW-846 6010D	12/6/18	12/6/18 15:40	QNW
Manganese		0.17	0.010	mg/L	1		SW-846 6010D	12/6/18	12/6/18 15:40	QNW



Project Location: 309 Lowell Street, Andover, MA Sample Description: Work Order: 18L0059

Date Received: 12/4/2018

Field Sample #: OW-13 Sampled: 12/3/2018 11:00

Sample ID: 18L0059-03
Sample Matrix: Ground Water

Conventional Chemistry Parameters by EPA/APHA/SW-846 Methods (Total)

								Date	Date/Time	
	Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Prepared	Analyzed	Analyst
Nitrate as N		0.40	0.050	mg/L	1		SM 21-22 4500 NO3 F	12/5/18	12/5/18 14:11	IS
Sulfate		2.2	2.0	mg/L	1		ASTM D516-11	12/7/18	12/7/18 10:15	EC



Project Location: 309 Lowell Street, Andover, MA Sample Description: Work Order: 18L0059

Date Received: 12/4/2018

Sampled: 12/3/2018 11:40 Field Sample #: OW-12

Sample ID: 18L0059-04 Sample Matrix: Ground Water

Patroloum	Hydrocarbon	e Analyeae	VPH

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Unadjusted C5-C8 Aliphatics	ND	100	μg/L	1	1 mg/ Quiii	MADEP-VPH-Feb 2018 Rev 2.1	12/5/18	12/5/18 19:58	EEH
C5-C8 Aliphatics	ND	100	μg/L	1		MADEP-VPH-Feb 2018 Rev 2.1	12/5/18	12/5/18 19:58	EEH
Unadjusted C9-C12 Aliphatics	ND	100	$\mu g/L$	1		MADEP-VPH-Feb 2018 Rev 2.1	12/5/18	12/5/18 19:58	EEH
C9-C12 Aliphatics	ND	100	$\mu g/L$	1		MADEP-VPH-Feb 2018 Rev 2.1	12/5/18	12/5/18 19:58	EEH
C9-C10 Aromatics	ND	100	$\mu g/L$	1		MADEP-VPH-Feb 2018 Rev 2.1	12/5/18	12/5/18 19:58	EEH
Benzene	ND	1.0	$\mu g/L$	1		MADEP-VPH-Feb 2018 Rev 2.1	12/5/18	12/5/18 19:58	EEH
Ethylbenzene	ND	1.0	$\mu g/L$	1		MADEP-VPH-Feb 2018 Rev 2.1	12/5/18	12/5/18 19:58	EEH
Methyl tert-Butyl Ether (MTBE)	ND	1.0	μg/L	1		MADEP-VPH-Feb 2018 Rev 2.1	12/5/18	12/5/18 19:58	EEH
Naphthalene	ND	5.0	$\mu g/L$	1		MADEP-VPH-Feb 2018 Rev 2.1	12/5/18	12/5/18 19:58	EEH
Toluene	ND	1.0	μg/L	1		MADEP-VPH-Feb 2018 Rev 2.1	12/5/18	12/5/18 19:58	EEH
m+p Xylene	ND	2.0	μg/L	1		MADEP-VPH-Feb 2018 Rev 2.1	12/5/18	12/5/18 19:58	EEH
o-Xylene	ND	1.0	μg/L	1		MADEP-VPH-Feb 2018 Rev 2.1	12/5/18	12/5/18 19:58	EEH
Surrogates		% Recovery	Recovery Limits	š	Flag/Qual				
2,5-Dibromotoluene (FID)		97.3	70-130					12/5/18 19:58	
2.5 Dibromotolyana (BID)		100	70 120					12/5/19 10:59	



Project Location: 309 Lowell Street, Andover, MA Sample Description: Work Order: 18L0059

Date Received: 12/4/2018

Field Sample #: OW-12 Sampled: 12/3/2018 11:40

Sample ID: 18L0059-04
Sample Matrix: Ground Water

Miscellaneous Organic Analyses

								Date	Date/Time	
	Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Prepared	Analyzed	Analyst
Methane		0.14	0.0070	mg/L	1		RSK175	12/7/18	12/7/18 12:26	TPH



Project Location: 309 Lowell Street, Andover, MA Sample Description: Work Order: 18L0059

Date Received: 12/4/2018

Field Sample #: OW-12 Sampled: 12/3/2018 11:40

Sample ID: 18L0059-04
Sample Matrix: Ground Water

Metals Analyses (Dissolved)

								Date	Date/Time	
	Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Prepared	Analyzed	Analyst
Iron		0.45	0.050	mg/L	1		SW-846 6010D	12/6/18	12/6/18 15:47	QNW
Manganese		0.51	0.010	mg/L	1		SW-846 6010D	12/6/18	12/6/18 15:47	QNW



Project Location: 309 Lowell Street, Andover, MA Sample Description: Work Order: 18L0059

Date Received: 12/4/2018

Field Sample #: OW-12 Sampled: 12/3/2018 11:40

Sample ID: 18L0059-04
Sample Matrix: Ground Water

Conventional Chemistry Parameters by EPA/APHA/SW-846 Methods (Total)

								Date	Date/Time	
	Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Prepared	Analyzed	Analyst
Nitrate as N		1.5	0.050	mg/L	1		SM 21-22 4500 NO3 F	12/5/18	12/5/18 14:11	IS
Sulfate		45	4.0	mg/L	2		ASTM D516-11	12/7/18	12/7/18 10:15	EC



Project Location: 309 Lowell Street, Andover, MA Work Order: 18L0059 Sample Description:

Date Received: 12/4/2018

Sampled: 12/3/2018 12:20 Field Sample #: MW-ED

Sample ID: 18L0059-05 Sample Matrix: Ground Water

Petroleum Hydrocarbons Analyses - VPH

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Unadjusted C5-C8 Aliphatics	ND	100	μg/L	1	8.0	MADEP-VPH-Feb 2018 Rev 2.1	12/5/18	12/5/18 20:27	EEH
C5-C8 Aliphatics	ND	100	μg/L	1		MADEP-VPH-Feb 2018 Rev 2.1	12/5/18	12/5/18 20:27	EEH
Unadjusted C9-C12 Aliphatics	ND	100	$\mu g/L$	1		MADEP-VPH-Feb 2018 Rev 2.1	12/5/18	12/5/18 20:27	EEH
C9-C12 Aliphatics	ND	100	μg/L	1		MADEP-VPH-Feb 2018 Rev 2.1	12/5/18	12/5/18 20:27	EEH
C9-C10 Aromatics	ND	100	$\mu g/L$	1		MADEP-VPH-Feb 2018 Rev 2.1	12/5/18	12/5/18 20:27	EEH
Benzene	ND	1.0	$\mu g/L$	1		MADEP-VPH-Feb 2018 Rev 2.1	12/5/18	12/5/18 20:27	EEH
Ethylbenzene	ND	1.0	$\mu g/L$	1		MADEP-VPH-Feb 2018 Rev 2.1	12/5/18	12/5/18 20:27	EEH
Methyl tert-Butyl Ether (MTBE)	48	1.0	μg/L	1		MADEP-VPH-Feb 2018 Rev 2.1	12/5/18	12/5/18 20:27	EEH
Naphthalene	ND	5.0	$\mu g/L$	1		MADEP-VPH-Feb 2018 Rev 2.1	12/5/18	12/5/18 20:27	EEH
Toluene	ND	1.0	$\mu g/L$	1		MADEP-VPH-Feb 2018 Rev 2.1	12/5/18	12/5/18 20:27	EEH
m+p Xylene	ND	2.0	$\mu g/L$	1		MADEP-VPH-Feb 2018 Rev 2.1	12/5/18	12/5/18 20:27	EEH
o-Xylene	ND	1.0	$\mu g/L$	1		MADEP-VPH-Feb 2018 Rev 2.1	12/5/18	12/5/18 20:27	EEH
Surrogates		% Recovery	Recovery Limits	š	Flag/Qual				
2,5-Dibromotoluene (FID)		109	70-130					12/5/18 20:27	
2.5 Dibromotolyana (BID)		110	70.120					12/5/19 20:27	



Project Location: 309 Lowell Street, Andover, MA Sample Description: Work Order: 18L0059

Date Received: 12/4/2018

Field Sample #: MW-ED Sampled: 12/3/2018 12:20

Sample ID: 18L0059-05
Sample Matrix: Ground Water

Miscellaneous Organic Analyses

								Date	Date/Time	
	Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Prepared	Analyzed	Analyst
Methane		ND	0.0070	mg/L	1		RSK175	12/7/18	12/7/18 12:37	TPH



Project Location: 309 Lowell Street, Andover, MA Sample Description: Work Order: 18L0059

Date Received: 12/4/2018

Field Sample #: MW-ED Sampled: 12/3/2018 12:20

Sample ID: 18L0059-05
Sample Matrix: Ground Water

Metals Analyses (Dissolved)

								Date	Date/Time	
	Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Prepared	Analyzed	Analyst
Iron		ND	0.050	mg/L	1		SW-846 6010D	12/6/18	12/6/18 15:53	QNW
Manganese		0.024	0.010	mg/L	1		SW-846 6010D	12/6/18	12/6/18 15:53	QNW



Project Location: 309 Lowell Street, Andover, MA Sample Description: Work Order: 18L0059

Date Received: 12/4/2018

Field Sample #: MW-ED Sampled: 12/3/2018 12:20

Sample ID: 18L0059-05
Sample Matrix: Ground Water

Conventional Chemistry Parameters by EPA/APHA/SW-846 Methods (Total)

								Date	Date/Time	
	Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Prepared	Analyzed	Analyst
Nitrate as N		ND	0.050	mg/L	1		SM 21-22 4500 NO3 F	12/5/18	12/5/18 14:11	IS
Sulfate		37	2.0	mg/L	1		ASTM D516-11	12/7/18	12/7/18 10:15	EC



Project Location: 309 Lowell Street, Andover, MA Sample Description: Work Order: 18L0059

Date Received: 12/4/2018

Sampled: 12/3/2018 13:00 Field Sample #: MW-2B

Sample ID: 18L0059-06 Sample Matrix: Ground Water

Patroloum	Hydrocarbone	Analyeae	VPH

							Date	Date/Time	
Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Prepared	Analyzed	Analyst
Unadjusted C5-C8 Aliphatics	ND	100	$\mu g/L$	1		MADEP-VPH-Feb 2018 Rev 2.1	12/5/18	12/5/18 20:56	EEH
C5-C8 Aliphatics	ND	100	$\mu g/L$	1		MADEP-VPH-Feb 2018 Rev 2.1	12/5/18	12/5/18 20:56	EEH
Unadjusted C9-C12 Aliphatics	ND	100	$\mu g/L$	1		MADEP-VPH-Feb 2018 Rev 2.1	12/5/18	12/5/18 20:56	EEH
C9-C12 Aliphatics	ND	100	μg/L	1		MADEP-VPH-Feb 2018 Rev 2.1	12/5/18	12/5/18 20:56	EEH
C9-C10 Aromatics	ND	100	$\mu g/L$	1		MADEP-VPH-Feb 2018 Rev 2.1	12/5/18	12/5/18 20:56	EEH
Benzene	ND	1.0	$\mu g/L$	1		MADEP-VPH-Feb 2018 Rev 2.1	12/5/18	12/5/18 20:56	EEH
Ethylbenzene	ND	1.0	$\mu g/L$	1		MADEP-VPH-Feb 2018 Rev 2.1	12/5/18	12/5/18 20:56	EEH
Methyl tert-Butyl Ether (MTBE)	ND	1.0	$\mu g/L$	1		MADEP-VPH-Feb 2018 Rev 2.1	12/5/18	12/5/18 20:56	EEH
Naphthalene	ND	5.0	$\mu g/L$	1		MADEP-VPH-Feb 2018 Rev 2.1	12/5/18	12/5/18 20:56	EEH
Toluene	ND	1.0	$\mu g/L$	1		MADEP-VPH-Feb 2018 Rev 2.1	12/5/18	12/5/18 20:56	EEH
m+p Xylene	ND	2.0	$\mu g/L$	1		MADEP-VPH-Feb 2018 Rev 2.1	12/5/18	12/5/18 20:56	EEH
o-Xylene	1.8	1.0	$\mu g/L$	1		MADEP-VPH-Feb 2018 Rev 2.1	12/5/18	12/5/18 20:56	EEH
Surrogates		% Recovery	Recovery Limits		Flag/Qual				
2,5-Dibromotoluene (FID)		116	70-130					12/5/18 20:56	
2.5-Dibromotoluene (PID)		122	70-130					12/5/18 20:56	

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
2,5-Dibromotoluene (FID)	116	70-130		12/5/18 20:56
2,5-Dibromotoluene (PID)	122	70-130		12/5/18 20:56



Project Location: 309 Lowell Street, Andover, MA Work Order: 18L0059 Sample Description:

Date Received: 12/4/2018

Sampled: 12/3/2018 13:40 Field Sample #: MW-1

Sample ID: 18L0059-07 Sample Matrix: Ground Water

Petroleum Hydrocarbons Analyses - VPH

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Unadjusted C5-C8 Aliphatics	ND	100	μg/L	1	8.0	MADEP-VPH-Feb 2018 Rev 2.1	12/5/18	12/5/18 21:26	EEH
C5-C8 Aliphatics	ND	100	μg/L	1		MADEP-VPH-Feb 2018 Rev 2.1	12/5/18	12/5/18 21:26	EEH
Unadjusted C9-C12 Aliphatics	ND	100	μg/L	1		MADEP-VPH-Feb 2018 Rev 2.1	12/5/18	12/5/18 21:26	EEH
C9-C12 Aliphatics	ND	100	μg/L	1		MADEP-VPH-Feb 2018 Rev 2.1	12/5/18	12/5/18 21:26	EEH
C9-C10 Aromatics	ND	100	$\mu g/L$	1		MADEP-VPH-Feb 2018 Rev 2.1	12/5/18	12/5/18 21:26	EEH
Benzene	ND	1.0	$\mu g/L$	1		MADEP-VPH-Feb 2018 Rev 2.1	12/5/18	12/5/18 21:26	EEH
Ethylbenzene	ND	1.0	$\mu g/L$	1		MADEP-VPH-Feb 2018 Rev 2.1	12/5/18	12/5/18 21:26	EEH
Methyl tert-Butyl Ether (MTBE)	ND	1.0	$\mu g/L$	1		MADEP-VPH-Feb 2018 Rev 2.1	12/5/18	12/5/18 21:26	EEH
Naphthalene	ND	5.0	$\mu g/L$	1		MADEP-VPH-Feb 2018 Rev 2.1	12/5/18	12/5/18 21:26	EEH
Toluene	ND	1.0	μg/L	1		MADEP-VPH-Feb 2018 Rev 2.1	12/5/18	12/5/18 21:26	EEH
m+p Xylene	ND	2.0	$\mu g/L$	1		MADEP-VPH-Feb 2018 Rev 2.1	12/5/18	12/5/18 21:26	EEH
o-Xylene	ND	1.0	μg/L	1		MADEP-VPH-Feb 2018 Rev 2.1	12/5/18	12/5/18 21:26	EEH
Surrogates		% Recovery	Recovery Limits	š	Flag/Qual				
2,5-Dibromotoluene (FID)		111	70-130					12/5/18 21:26	
2.5 Dibromotolyana (BID)		120	70.120					12/5/19 21:26	



Project Location: 309 Lowell Street, Andover, MA Sample Description: Work Order: 18L0059

Date Received: 12/4/2018

Field Sample #: MW-1 Sampled: 12/3/2018 13:40

Sample ID: 18L0059-07
Sample Matrix: Ground Water

Miscellaneous Organic Analyses

								Date	Date/Time	
	Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Prepared	Analyzed	Analyst
Methane		3.1	0.0070	mg/L	1		RSK175	12/7/18	12/7/18 13:26	TPH



Project Location: 309 Lowell Street, Andover, MA Sample Description: Work Order: 18L0059

Date Received: 12/4/2018

Field Sample #: MW-1 Sampled: 12/3/2018 13:40

Sample ID: 18L0059-07
Sample Matrix: Ground Water

Metals Analyses (Dissolved)

								Date	Date/Time	
	Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Prepared	Analyzed	Analyst
Iron		56	0.050	mg/L	1		SW-846 6010D	12/6/18	12/6/18 16:05	QNW
Manganese		6.5	0.010	mg/L	1		SW-846 6010D	12/6/18	12/6/18 16:05	ONW



Project Location: 309 Lowell Street, Andover, MA Sample Description: Work Order: 18L0059

Date Received: 12/4/2018

Field Sample #: MW-1 Sampled: 12/3/2018 13:40

Sample ID: 18L0059-07
Sample Matrix: Ground Water

Conventional Chemistry Parameters by EPA/APHA/SW-846 Methods (Total)

								Date	Date/Time	
	Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Prepared	Analyzed	Analyst
Nitrate as N		0.061	0.050	mg/L	1		SM 21-22 4500 NO3 F	12/5/18	12/5/18 14:11	IS
Sulfate		12	2.0	mg/L	1		ASTM D516-11	12/7/18	12/7/18 10:15	EC



Sample Extraction Data

ASTM D516-11

Lab Number [Field ID]	Batch	Initial [mL]	Final [mL]	Date
18L0059-03 [OW-13]	B218721	100	100	12/07/18
18L0059-04 [OW-12]	B218721	100	100	12/07/18
18L0059-05 [MW-ED]	B218721	100	100	12/07/18
18L0059-07 [MW-1]	B218721	100	100	12/07/18

Prep Method: MA VPH-MADEP-VPH-Feb 2018 Rev 2.1

Lab Number [Field ID]	Batch	Initial [mL]	Final [mL]	Date
18L0059-03 [OW-13]	B218543	5	5.00	12/05/18
18L0059-04 [OW-12]	B218543	5	5.00	12/05/18
18L0059-05 [MW-ED]	B218543	5	5.00	12/05/18
18L0059-06 [MW-2B]	B218543	5	5.00	12/05/18
18L0059-07 [MW-1]	B218543	5	5.00	12/05/18

Prep Method: MA VPH-MADEP-VPH-Feb 2018 Rev 2.1

Lab Number [Field ID]	Batch	Initial [mL]	Final [mL]	Date
18L0059-01 [MW-4]	B218614	5	5.00	12/06/18
18L0059-02 [MW-3]	B218614	5	5.00	12/06/18

RSK175

Lab Number [Field ID]	Batch	Initial [mL]	Final [mL]	Date	
18L0059-03 [OW-13]	B218910	1.00	1.00	12/07/18	
18L0059-04 [OW-12]	B218910	1.00	1.00	12/07/18	
18L0059-05 [MW-ED]	B218910	1.00	1.00	12/07/18	
18L0059-07 [MW-1]	B218910	1.00	1.00	12/07/18	

SM 21-22 4500 NO3 F

Lab Number [Field ID]	Batch	Initial [mL]	Final [mL]	Date
18L0059-03 [OW-13]	B218557	25.0	25.0	12/05/18
18L0059-04 [OW-12]	B218557	25.0	25.0	12/05/18
18L0059-05 [MW-ED]	B218557	25.0	25.0	12/05/18
18L0059-07 [MW-1]	B218557	25.0	25.0	12/05/18

Prep Method: SW-846 3005A Dissolved-SW-846 6010D

Lab Number [Field ID]	Batch	Initial [mL]	Final [mL]	Date
18L0059-03 [OW-13]	B218645	5.00	5.00	12/06/18
18L0059-04 [OW-12]	B218645	5.00	5.00	12/06/18
18L0059-05 [MW-ED]	B218645	5.00	5.00	12/06/18
18L0059-07 [MW-1]	B218645	5.00	5.00	12/06/18



39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

QUALITY CONTROL

Petroleum Hydrocarbons Analyses - VPH - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B218543 - MA VPH										
Blank (B218543-BLK1)				Prepared &	Analyzed: 12	/05/18				
Unadjusted C5-C8 Aliphatics	ND	100	μg/L							
C5-C8 Aliphatics	ND	100	$\mu \text{g/L}$							
Unadjusted C9-C12 Aliphatics	ND	100	$\mu g/L$							
C9-C12 Aliphatics	ND	100	$\mu g/L$							
C9-C10 Aromatics	ND	100	$\mu g/L$							
Benzene	ND	1.0	$\mu g \! / \! L$							
Butylcyclohexane	ND	1.0	μg/L							
Decane	ND	1.0	μg/L							
Ethylbenzene	ND	1.0	μg/L							
Methyl tert-Butyl Ether (MTBE)	ND	1.0	μg/L							
-Methylpentane	ND	1.0	μg/L							
Naphthalene	ND	5.0	μg/L							
Nonane	ND	1.0	μg/L							
Pentane	ND	1.0	μg/L							
Toluene	ND	1.0	μg/L							
,2,4-Trimethylbenzene	ND	1.0	μg/L							
2,2,4-Trimethylpentane	ND	1.0	μg/L							
n+p Xylene	ND	2.0	μg/L							
-Xylene	ND	1.0	μg/L							
Surrogate: 2,5-Dibromotoluene (FID)	40.9		$\mu g/L$	40.0		102	70-130			
Surrogate: 2,5-Dibromotoluene (PID)	42.9		μg/L	40.0		107	70-130			
LCS (B218543-BS1)				Prepared &	Analyzed: 12	/05/18				
Benzene	49.0	1.0	$\mu g/L$	50.0		98.0	70-130			
Butylcyclohexane	57.8	1.0	$\mu g/L$	50.0		116	70-130			
Decane	46.7	1.0	μg/L	50.0		93.5	70-130			
Ethylbenzene	51.5	1.0	μg/L	50.0		103	70-130			
Methyl tert-Butyl Ether (MTBE)	48.6	1.0	μg/L	50.0		97.2	70-130			
2-Methylpentane	45.5	1.0	μg/L	50.0		91.1	70-130			
Naphthalene	50.8	5.0	μg/L	50.0		102	70-130			
Nonane	55.8	1.0	μg/L	50.0		112	30-130			
Pentane	40.2	1.0	μg/L	50.0		80.4	70-130			
Toluene	50.2	1.0	μg/L	50.0		100	70-130			
,2,4-Trimethylbenzene	53.4	1.0	μg/L	50.0		107	70-130			
2,2,4-Trimethylpentane	47.8	1.0	μg/L	50.0		95.7	70-130			
n+p Xylene	104	2.0	μg/L μg/I	100		104	70-130			
o-Xylene	52.0	1.0	μg/L	50.0		104	70-130			
Surrogate: 2,5-Dibromotoluene (FID)	45.5		μg/L	40.0		114	70-130			
Surrogate: 2,5-Dibromotoluene (PID)	47.6		μg/L	40.0		119	70-130			
LCS Dup (B218543-BSD1)					Analyzed: 12					
Benzene	50.7	1.0	μg/L	50.0		101	70-130	3.35	25	
Butylcyclohexane	58.4	1.0	μg/L	50.0		117	70-130	1.01	25	
Decane	47.4	1.0	μg/L	50.0		94.8	70-130	1.40	25	
Ethylbenzene	53.7	1.0	μg/L	50.0		107	70-130	4.19	25	
Methyl tert-Butyl Ether (MTBE)	49.3	1.0	μg/L	50.0		98.5	70-130	1.31	25	
2-Methylpentane	47.5	1.0	μg/L	50.0		95.0	70-130	4.18	25	
Naphthalene	50.0	5.0	μg/L	50.0		100	70-130	1.46	25	
Nonane	56.6	1.0	μg/L	50.0		113	30-130	1.35	25	
Pentane	41.3	1.0	μg/L	50.0		82.7	70-130	2.87	25	
Toluene	52.2	1.0	μg/L	50.0		104	70-130	3.99	25	
,2,4-Trimethylbenzene	55.5	1.0	μg/L	50.0		111	70-130	3.88	25	



QUALITY CONTROL

Petroleum Hydrocarbons Analyses - VPH - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B218543 - MA VPH										
LCS Dup (B218543-BSD1)				Prepared &	Analyzed: 12	/05/18				
2,2,4-Trimethylpentane	48.8	1.0	μg/L	50.0		97.6	70-130	2.05	25	
m+p Xylene	108	2.0	$\mu g/L$	100		108	70-130	3.90	25	
o-Xylene	53.9	1.0	$\mu g/L$	50.0		108	70-130	3.68	25	
Surrogate: 2,5-Dibromotoluene (FID)	43.9		μg/L	40.0		110	70-130			
Surrogate: 2,5-Dibromotoluene (PID)	45.6		μg/L	40.0		114	70-130			
Batch B218614 - MA VPH										
Blank (B218614-BLK1)				Prepared &	Analyzed: 12	/06/18				
Unadjusted C5-C8 Aliphatics	ND	100	μg/L							
C5-C8 Aliphatics	ND	100	μg/L							
Unadjusted C9-C12 Aliphatics	ND	100	μg/L							
C9-C12 Aliphatics	ND	100	μg/L							
C9-C10 Aromatics	ND	100	μg/L							
Benzene	ND	1.0	μg/L							
Butylcyclohexane	ND	1.0	μg/L							
Decane	ND	1.0	$\mu g/L$							
Ethylbenzene	ND	1.0	$\mu g/L$							
Methyl tert-Butyl Ether (MTBE)	ND	1.0	$\mu g/L$							
2-Methylpentane	ND	1.0	$\mu g/L$							
Naphthalene	ND	5.0	$\mu g/L$							
Nonane	ND	1.0	$\mu g/L$							
Pentane	ND	1.0	$\mu g/L$							
Toluene	ND	1.0	$\mu g/L$							
1,2,4-Trimethylbenzene	ND	1.0	$\mu g/L$							
2,2,4-Trimethylpentane	ND	1.0	$\mu g/L$							
m+p Xylene	ND	2.0	μg/L							
o-Xylene	ND	1.0	μg/L							
Surrogate: 2,5-Dibromotoluene (FID)	44.1		μg/L	40.0		110	70-130			
Surrogate: 2,5-Dibromotoluene (PID)	48.7		$\mu g/L$	40.0		122	70-130			
LCS (B218614-BS1)				Prepared &	Analyzed: 12	/06/18				
Benzene	49.6	1.0	μg/L	50.0		99.1	70-130			
Butylcyclohexane	58.4	1.0	μg/L	50.0		117	70-130			
Decane	47.4	1.0	$\mu \text{g}/L$	50.0		94.8	70-130			
Ethylbenzene	52.9	1.0	$\mu g/L$	50.0		106	70-130			
Methyl tert-Butyl Ether (MTBE)	49.2	1.0	$\mu g/L$	50.0		98.3	70-130			
2-Methylpentane	45.5	1.0	$\mu g \! / \! L$	50.0		91.0	70-130			
Naphthalene	51.2	5.0	$\mu g/L$	50.0		102	70-130			
Nonane	56.2	1.0	$\mu \text{g/L}$	50.0		112	30-130			
Pentane	37.3	1.0	$\mu g \! / \! L$	50.0		74.6	70-130			
Toluene	51.3	1.0	μg/L	50.0		103	70-130			
1,2,4-Trimethylbenzene	55.1	1.0	μg/L	50.0		110	70-130			
2,2,4-Trimethylpentane	48.0	1.0	μg/L	50.0		96.0	70-130			
m+p Xylene	107	2.0	μg/L	100		107	70-130			
o-Xylene	53.5	1.0	μg/L	50.0		107	70-130			
Surrogate: 2,5-Dibromotoluene (FID)	43.7		$\mu g/L$	40.0		109	70-130			
Surrogate: 2,5-Dibromotoluene (PID)	46.5		$\mu g/L$	40.0		116	70-130			



QUALITY CONTROL

Petroleum Hydrocarbons Analyses - VPH - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B218614 - MA VPH										
LCS Dup (B218614-BSD1)				Prepared & A	Analyzed: 12/	/06/18				
Benzene	48.7	1.0	μg/L	50.0		97.5	70-130	1.65	25	
Butylcyclohexane	57.3	1.0	$\mu g/L$	50.0		115	70-130	1.75	25	
Decane	46.8	1.0	$\mu g/L$	50.0		93.6	70-130	1.29	25	
Ethylbenzene	51.9	1.0	$\mu \text{g/L}$	50.0		104	70-130	1.94	25	
Methyl tert-Butyl Ether (MTBE)	47.5	1.0	$\mu \text{g/L}$	50.0		94.9	70-130	3.51	25	
2-Methylpentane	45.1	1.0	$\mu g/L$	50.0		90.1	70-130	0.998	25	
Naphthalene	49.6	5.0	$\mu \text{g/L}$	50.0		99.2	70-130	3.24	25	
Nonane	55.6	1.0	$\mu \text{g/L}$	50.0		111	30-130	1.14	25	
Pentane	38.4	1.0	$\mu \text{g/L}$	50.0		76.8	70-130	2.90	25	
Toluene	50.3	1.0	$\mu \text{g}/L$	50.0		101	70-130	1.98	25	
1,2,4-Trimethylbenzene	53.8	1.0	$\mu g/L$	50.0		108	70-130	2.40	25	
2,2,4-Trimethylpentane	47.4	1.0	$\mu g/L$	50.0		94.8	70-130	1.19	25	
m+p Xylene	104	2.0	$\mu g/L$	100		104	70-130	2.08	25	
o-Xylene	52.3	1.0	$\mu g/L$	50.0		105	70-130	2.28	25	
Surrogate: 2,5-Dibromotoluene (FID)	44.1		μg/L	40.0		110	70-130			
Surrogate: 2,5-Dibromotoluene (PID)	47.6		μg/L	40.0		119	70-130			



QUALITY CONTROL

Miscellaneous Organic Analyses - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B218910 - RSK175										
Blank (B218910-BLK1)				Prepared & A	Analyzed: 12	/07/18				
Methane	ND	0.0070	mg/L							
LCS (B218910-BS1)				Prepared & A	Analyzed: 12	/07/18				
Methane	0.16		mg/L	0.179		91.9	79.5-125			
Duplicate (B218910-DUP1)	Sour	Source: 18L0059-03			Prepared & Analyzed: 12/07/18					
Methane	0.292	0.0070	mg/L		0.293			0.294	20	



QUALITY CONTROL

Metals Analyses (Dissolved) - Quality Control

	D. I.	Reporting	** **	Spike	Source	A/DEG	%REC	D D D	RPD	NT .
Analyte	Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	Notes
Batch B218645 - SW-846 3005A Dissolved										
Blank (B218645-BLK1)				Prepared &	Analyzed: 12	/06/18				
Iron	ND	0.050	mg/L							
Manganese	ND	0.010	mg/L							
LCS (B218645-BS1)				Prepared &	Analyzed: 12	/06/18				
Iron	3.93	0.050	mg/L	4.00		98.2	80-120			
Manganese	4.02	0.010	mg/L	4.00		101	80-120			
Duplicate (B218645-DUP1)	Sou	rce: 18L0059-	03	Prepared &	Analyzed: 12	/06/18				
Iron	0.888	0.050	mg/L		0.857	7		3.62	20	
Manganese	0.178	0.010	mg/L		0.172	2		3.53	20	
Matrix Spike (B218645-MS1)	Sou	rce: 18L0059-	03	Prepared &	Analyzed: 12	/06/18				
Iron	17.8	0.051	mg/L	16.3	0.857	7 104	75-125			
Manganese	2.25	0.010	mg/L	2.04	0.172	102	75-125			



QUALITY CONTROL

Conventional Chemistry Parameters by EPA/APHA/SW-846 Methods (Total) - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes		
Batch B218557 - SM 21-22 4500 NO3 F												
Blank (B218557-BLK1)				Prepared &	Analyzed: 12	/05/18						
Nitrate as N	ND	0.050	mg/L									
LCS (B218557-BS1)				Prepared &	Analyzed: 12	/05/18						
Nitrate as N	2.8		mg/L	2.50		112	82.5-117					
LCS Dup (B218557-BSD1)				Prepared &	Analyzed: 12	/05/18						
Nitrate as N	2.9		mg/L	2.50		115	82.5-117	2.11	8.45			
Duplicate (B218557-DUP1)	Sourc	e: 18L0059-	04	Prepared &	Analyzed: 12	/05/18						
Nitrate as N	1.5	0.050	mg/L		1.5			0.669	24			
Matrix Spike (B218557-MS1)	Source	e: 18L0059-	04	Prepared &	Analyzed: 12	/05/18						
Nitrate as N	5.4	0.050	mg/L	4.00	1.5	98.0	57.1-126					
Batch B218721 - ASTM D516-11												
Blank (B218721-BLK1)				Prepared &	Analyzed: 12	/07/18						
Sulfate	ND	2.0	mg/L									
LCS (B218721-BS1)				Prepared &	Analyzed: 12	/07/18						
Sulfate	19	2.0	mg/L	20.0		92.8	85.6-110					
LCS Dup (B218721-BSD1)				Prepared &	Analyzed: 12	/07/18						
Sulfate	18	2.0	mg/L	20.0		90.8	85.6-110	2.18	5.55			
Duplicate (B218721-DUP1)	Sourc	e: 18L0059-	07	Prepared & Analyzed: 12/07/18								
Sulfate	12 2.0 mg/L					ng/L 12 0.00 16						
Matrix Spike (B218721-MS1)	Sourc	Prepared & Analyzed: 12/07/18										
Sulfate	29	2.0	mg/L	20.0	12	83.6	45.6-127					



FLAG/QUALIFIER SUMMARY

 OC result is outside of established limit 		blished limit
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† Wide recovery limits established for difficult compound.

‡ Wide RPD limits established for difficult compound.

Data exceeded client recommended or regulatory level

ND Not Detected

RL Reporting Limit is at the level of quantitation (LOQ)

DL Detection Limit is the lower limit of detection determined by the MDL study

MCL Maximum Contaminant Level

Percent recoveries and relative percent differences (RPDs) are determined by the software using values in the

calculation which have not been rounded.

No results have been blank subtracted unless specified in the case narrative section.



CERTIFICATIONS

Certified Analyses included in this Report

Certifications Analyte ASTM D516-11 in Water Sulfate NY,NH,MA,CT,RI,VA,NC MADEP-VPH-Feb 2018 Rev 2.1 in Water Unadjusted C5-C8 Aliphatics CT,NC,ME,NH-P C5-C8 Aliphatics CT,NC,ME,NH-P CT,NC,ME,NH-P Unadjusted C9-C12 Aliphatics C9-C12 Aliphatics CT,NC,ME,NH-P C9-C10 Aromatics CT,NC,ME,NH-P Benzene CT,NC,ME,NH-P

CT,NC,ME,NH-P

CT,NC,ME,NH-P CT,NC,ME,NH-P

CT,NC,ME,NH-P

CT,NC,ME,NH-P

CT,NC,ME,NH-P

o-Xylene

RSK175 in Water

Ethylbenzene

Naphthalene Toluene

m+p Xylene

Methane VA,NY,ME

SM 21-22 4500 NO3 F in Water

Methyl tert-Butyl Ether (MTBE)

Nitrate as N CT,MA,NH,NY,RI,ME,NC,VA

SW-846 6010D in Water

IronCT,NH,NY,ME,NC,VAManganeseCT,NH,NY,ME,NC,VA

 $The \ CON\text{-}TEST \ Environmental \ Laboratory \ operates \ under the \ following \ certifications \ and \ accreditations:$

Code	Description	Number	Expires
AIHA	AIHA-LAP, LLC - ISO17025:2005	100033	03/1/2020
MA	Massachusetts DEP	M-MA100	06/30/2019
CT	Connecticut Department of Publile Health	PH-0567	09/30/2019
NY	New York State Department of Health	10899 NELAP	04/1/2019
NH-S	New Hampshire Environmental Lab	2516 NELAP	02/5/2019
RI	Rhode Island Department of Health	LAO00112	12/30/2018
NC	North Carolina Div. of Water Quality	652	12/31/2019
NJ	New Jersey DEP	MA007 NELAP	06/30/2019
FL	Florida Department of Health	E871027 NELAP	06/30/2019
VT	Vermont Department of Health Lead Laboratory	LL015036	07/30/2019
ME	State of Maine	2011028	06/9/2019
VA	Commonwealth of Virginia	460217	12/14/2018
NH-P	New Hampshire Environmental Lab	2557 NELAP	09/6/2019
VT-DW	Vermont Department of Health Drinking Water	VT-255716	06/12/2019
NC-DW	North Carolina Department of Health	25703	07/31/2019

	Page L of L	# of Containors	2 Developments	3 Container Code		6 Field Filtered				O Field Filtered		- I	¹ Matrix Codes:	GW = Ground Water	WW = Waste Water DW = Drinking Water	A = Air	SL = Sludge	SOL = Solid	O = Other (please define)	T. T	2 Preservation Codes:	H = HCL		S = Sulfuric Acid B = Sodium Bisulfate	T = Sodium Thiosulfate	0 = Other (please	(allian	³ Container Codes: A ≈ Amber Glass	G = Glass	r = Plastic CT = Storilo	V = Vial	S = Summa Canister	= ediar Bag O = Other (please	define)	The state of the s	PCB ONLY	Soxhlet Non Soxhlet	700000
17	39 Spruce Street East Longmeadow, MA 01028				ANAI YSIS REDITECTED																					Please use the following codes to indicate possible sample concentration	column above: C - Clean: U - Unknown			1		うります	www.contestists.com		NELAC and Alka-LAP, LLC Accredited	Other	Chromatogram	
Doc # 381 Rev 1 03242017	₩ ₩	D N C	1 6 7 12	7000	SANA! VC	9 1000 1000	(vn)	V/ Y_	5 1	77) A 3	1- 1- 1- 1-	7 7 70	2 L 581 14	0												ne folfowing codes to indica	within the Conc Code column above: H - High; M - Medium; L - Low; C - Clean; U - Unknown		erients	MA MCF Required	orm Reguired	CT RCP Required	orm Required	MA State DW Required		ATOM ATOM	School	MBTA
http://www.contestlabs.com	CHAIN OF CUSTODY RECORD	10-Day	はという		3-Dav	4-Day	Approximately and a second	EXCEL		g Required:			Grab	Code	7	30/			/ Cm	/ Gw	Con	no/				Please use th	# ## ## ## ## ## ## ## ## ## ## ## ## #		T See	Z YW	MCP Certification Form Required	CTR	RCP Certification Form Required	MA State D	# OIS/Md	Municipality	21 J	Brownfield
http://w	CHAIN OF	7-Day	Due Date: 57		1-Day	2-Day		Format: PDF	Other:	CLP Like Data Pkg Required:	Email To:	Fax To #:	Beginning Ending Composite	trate/ ime	12/1/18 9.50	10.29	11.00		07:1	07.71	90,	or I	TAMANA TAMANA													Project Entity	Federal	City
180000	Phone: 413-525-2332 Fay: 413-525-6405	Email: info@contestlabs.com		, horeste M			Andove my		when				Client Sample ID / Description				7			E.	1.B		WANTED MANAGEMENT CONTROL OF THE PARTY OF TH				Pobul Beiter	Sec. 1	Date/Time	0,12/10	Conster Time: 9.	0/1/	1530 J	Date/Time: 15.20	`~·]	Date/Time: Pr	Date/Time:	
الله الما الما	£	(をしっ	Bu-bo- Ave		adrive rub	509 Come 1154	95, 214280	Acron has zow		***************************************	Clark			5-MZ	2 MW-3	17	3	4 OW-12	3 MW. E	1 MW-1	-MV = t					ATC CAM.		gracine)		ing)	The state of the s	The Tale			gnature)	ture)	
	CON-LEST		(Smileshy) (bride)	Address: 240	Phone 5.09 756		Project Location:	Project Number: C	Project Manager:	Con-Test Quote Name/Number:	Invoice Recipient:	Sampled By: 4	Con-Test	and work				The state of the s	To the second se						Commonte	confinence.	D-11ATC		Relinquished by: (signature)		Keceived by: (algorati	Pelinguished by Signatur		eceived by: (signature)	ne :	Elinquished by: (signature) O	Serived by: (signature)	5

I Have Not Confirmed Sample Container
Numbers With Lab Staff Before Relinquishing
Over Samples_____



Doc# 277 Rev 5 2017

Login Sample Receipt Checklist - (Rejection Criteria Listing - Using Acceptance Policy) Any False Statement will be brought to the attention of the Client - State True or False

Client	ATC	nent will be brou							
Receive		LR		Date	12-4-17	}	Time	1530	
How were th	e samples	In Cooler	τ	No Cooler		On Ice	· T	No Ice	
receiv	ed?	Direct from Sam	olina	•		Ambient		- Melted Ice	
18/	f		By Gun #	1		Actual Tem	ID - 2.1	-	
Were samp Temperatur			By Blank #			Actual Tem			•
•		eal Intact?	UA			s Tampered		A	-
	COC Relin				•	ree With Sa		<u></u>	-
		eaking/loose caps	on any sam	•	F Chair Ag	ice Willi Ja	impies:		,
Is COC in inf		-	on any sam	•		ved within h	olding time?		
Did COC in	•	Client		Analysis	•		er Name		-
pertinent Info		Project		ID's			Dates/Times	T	-
		d out and legible?	V LR 12						•
Are there Lat	to Filters?)	<u>' </u>	•	Who was	s notified?			
Are there Ru			F	•		s notified?			-
Are there She			$\overline{\epsilon}$	•		s notified?			•
Is there enou		?		u.					•
	~	ere applicable?	<u>£</u>	•	MS/MSD?	F		_	
Proper Media	•			<u>.</u>		samples red	- puired?	۶	
Were trip bla			<u> </u>	•	On COC?	•	4		•
Do all sample					TOHC2		Base		
Vials	#	Containers:	#			#			#
Unp-	ક	1 Liter Amb.		1 Liter	Plastic		16 oz	z Amb.	
HCL-	21	500 mL Amb.		500 mL	The state of the s	7	8oz An	nb/Clear	
Meoh-		250 mL Amb.		250 mL	Plastic	7	4oz An	nb/Clear	
Bisulfate-		Flashpoint		Col./Ba	acteria		2oz An	nb/Clear	
DI-		Other Glass		Other I	Plastic		En	core	
Thiosulfate-		SOC Kit		Plastic	c Bag		Frozen:		
Sulfuric-		Perchlorate		Zipl	ock				
				Unused I	Viedia				
Vials	#	Containers:	#			#			#
Unp-		1 Liter Amb.		1 Liter				Amb.	
HCL-		500 mL Amb.		500 mL				nb/Clear	
Meoh-		250 mL Amb.		250 mL	···		+	nb/Clear	
Bisulfate-	***************************************	Col./Bacteria		Flash				nb/Clear	
DI- Thiosulfate-		Other Plastic SOC Kit	 	Other Plastic			Frozen:	core	
Sulfuric-		Perchlorate		Zipl	_		Fluzell.		
Comments:		1 elcillorate		Zipi	UCK				

		MADE	P MCP Analytical N	Method Report Cer	tification Form							
Labo	ratory Name:	: Con-Test Ana	alytical Laboratory		Project #: 18L0	0059						
Proje	ect Location:	309 Lowell St	reet, Andover, MA		RTN:							
This F	orm provide:	s certifications for	the following data set	t: [list Laboratory Sa	mple ID Number(s)]							
18L	0059-01 thru	18L0059-07										
Matri	ces:	Water										
CA	AM Protoco	(check all that	below)									
8260 CAM	VOC II A ()	9014 Total Cyanide/PAC CAM VI A ()	6860 Perchlorate CAM VIII B () MassDEP APH									
	SVOC IIB()											
	Metals III A()	TO-15 VOC CAM IX B ()										
Affirmative response to Questions A throughF is required for "Presumptive Certainty" status												
Were all samples received in a condition consistent with those described on the Chain-of-Custody, properly preserved (including temperature) in the field or laboratory, and prepared/analyzed within method holding times?												
В	Were the analy		II associated QC requirem	nents specificed in the se	elected CAM	☑ Yes	□No¹					
Were all required corrective actions and analytical response actions specified in the selected CAM protocol(s) implemented for all identified performance standard non-conformances? ✓ Yes □ No¹												
Does the laboratory report comply with all the reporting requirements specified in CAM VII A, Quality Assurance and Quality Control Guidlines for the Acquisition and Reporting of Analytical Data?												
Еа	VPH, EPH, an	d APH Methods only: \	Nas each method conductor a list of significant modifi	ted without significant m		☑ Yes	□No¹					
Εb			the complete analyte list r		d?	□Yes	□No¹					
F			C and performance standancluding all No responses			☑ Yes	□No¹					
			and I below is require									
G	Were the repo	rting limits at or below	all CAM reporting limits s	pecified in the selected (CAM	☑ Yes	□No¹					
			resumptive Certainty" described in 310 CM		ssarily meet the data us WSC-07-350.	sability						
Н	Were all QC po	erfomance standards s	specified in the CAM proto	ocol(s) achieved?		☑ _{Yes}	\square_{No^1}					
I	I Were results reported for the complete analyte list specified in the selected CAM protocol(s)? ☑ Yes □ No¹											
1 _{All}	Negative resp	onses must be addre	essed in an attached Ei	nvironmental Laborato	ry case narrative.							
thos	I, the undersigned, attest under the pains and penalties of perjury that, based upon my personal inquiry of those responsible for obtaining the information, the material contained in this analytical report is, to the best of my knowledge and belief, accurate and complete.											
Sign	nature:	Tod	Kappe	Position:	Laboratory Director							
Prin	ited Name: _	Tod E. Kopyscin	ski	Date:	12/11/18							

REMEDY OPERATION STATUS REPORT 309 Lowell Street Andover, Massachusetts

ATTACHMENT IV

COPIES OF PUBLIC NOTIFICATION LETTERS



500 West Cummings Park, Suite 3750 Woburn, MA 01801 Telephone 781-932-9400 Fax 781-932-6211 www.atcgroupservices.com

January 25, 2019 ATC Project #95-214880

Town of Andover
Department of Community Development and Planning
Board of Health Department
36 Bartlet Street
Andover, Massachusetts 01810

RE: Notice of Document Availability

Project No. 95-214880 Mobil Station #1436 Global Companies LLC 309 Lowell Street, Andover, Massachusetts MassDEP RTN 3-3072

To Whom It May Concern:

Pursuant to the Massachusetts Contingency Plan (MCP) 310 CMR 40.1405 and the Public Involvement Plan (PIP) dated April 21, 1999, ATC Group Services, LLC (ATC) has prepared this letter on behalf of Global Companies LLC (Global) to inform you that a Phase V – Remedy Operation Status (ROS) report was submitted to the Massachusetts Department of Environmental Protection (MassDEP) on January 25, 2019. The report was submitted to the MassDEP for Release Tracking Number (RTN) 3-3072 assigned to the commercial property located at 309 Lowell Street, Andover, MA (the "Site").

A copy of the Phase V – ROS report is included for your files, as you are a designated document repository in accordance with the PIP. Notifications of the availability of this document will be forwarded to the parties on the PIP mailing list.

If you should have any questions concerning this submittal, please do not hesitate to contact our office.

Sincerely, ATC Group Services, LLC Oaron Kacyowka

Aaron Kaczowka Project Manager

cc: Memorial Hall Library, Elm Square, Andover, MA – UPS



500 West Cummings Park, Suite 3750 Woburn, MA 01801 Telephone 781-932-9400 Fax 781-932-6211 www.atcgroupservices.com

January 25, 2019 ATC Project #95-214880

Memorial Hall Library Elm Square 2 North Main Street Andover, Massachusetts 01810

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Sincerely,

ATC Group Services, LLC

Oaron Kacyowka

Aaron Kaczowka Project Manager

cc: Town of Andover, Board of Health – UPS